

1958-59

Central Steel

REPUBLIC 7-3000

Central Steel & Wire Company

P. O. Box 5310-A

CHICAGO 80, ILLINOIS

CHICAGO • DETROIT • CINCINNATI • MILWAUKEE

decimal equivalents

	1/64	.015625		.515625	-33/64
1/32		.03125		.53125	17/32
	3/64	.046875		.546875	-35/64
1/16		.0625		.5625	9/16
	5/64	.078125		.578125	-37/64
3/32		.09375		.59375	19/32
	7/64	.109375		.609375	-39/64
1/8		.125		.625	5/8
	9/64	.140625		.640625	-41/64
5/32		.15625		.65625	21/32
	11/64	.171875		.671875	-43/64
3/16		.1875		.6875	11/16
	13/64	.203125		.703125	-45/64
7/32		.21875		.71875	23/32
	15/64	.234375		.734375	-47/64
1/4		.250		.750	3/4
	17/64	.265625		.765625	-49/64
9/32		.28125		.78125	25/32
	19/64	.296875		.796875	-51/64
5/16		.3125		.8125	13/16
	21/64	.328125		.828125	-53/64
	11/32	.34375		.84375	27/32
	23/64	.359375		.859375	-55/64
3/8		.375		.875	7/8
	25/64	.390625		.890625	-57/64
13/32		.40625		.90625	29/32
	27/64	.421875		.921875	-59/64
7/16		.4375		.9375	15/16
	29/64	.453125		.953125	-61/64
15/32		.46875		.96875	31/32
	31/64	.484375		.984375	-63/64
1/2		.500		1.000	1

Central Steel & Wire Co.

PLANTS

CHICAGO 80, ILLINOIS

Republic 7-3000

Mail Box 5310-A

3000 W. 51st Street

TELETYPE NO. CG. 1720

DETROIT 12, MICHIGAN

Twinbrook 2-3200

Mail Box 148 Hamtramck Sta.

13400 Mt. Elliott Avenue

CINCINNATI 14, OHIO

Avon 1-2230

Mail Box 148 Annex Station

525 Township Ave.

MILWAUKEE 1, WISCONSIN

Humboldt 1-5000

Mail Box 1154

4343 S. 6th Street

GENERAL TRADE CUSTOMS

BEAMS
CHANNELS

ANGLES
TEES-ZEES

PLATES

GRATING
EXP. METAL

H. R.
BARS

C. F.
BARS

ALLOY
BARS

SHEETS
STRIP

STEEL
TUBING

WIRE
DRILL ROD

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

QUOTATIONS—All quotations made by this corporation or its agents are subject to change without notice, subject to prior sale and unless otherwise agreed are binding only for immediate acceptance. All sales are made subject to strikes, accidents or other causes beyond our control. We reserve the privilege to cancel contracts upon which full specifications have not been given within the time agreed.

Special material is not subject to cancellation without our written consent.

CONFIRMATION ORDERS—Confirming orders should be marked "Confirmation"—preferably across face of order. Confirmation orders not so marked may be treated as original open orders and duplicated—in such cases we will not be responsible for expense and inconvenience incurred.

TERMS—Our terms are 30 days net, or $\frac{1}{2}$ of 1%, 1% or 2% discount (depending upon commodity) for cash in 10 days from date of invoice.

DELIVERIES—Material from our warehouse is usually shipped the day order is received.

Telephone orders are accepted at the risk of the purchaser and shipments made before the receipt of confirmation are for the special convenience of the customer.

Promises of delivery on special orders are estimated as carefully as possible and although we do our best to ship within the time mentioned, we cannot guarantee to do so.

CLAIMS—A clear receipt from the railroad or express company places the responsibility for damage or shortage upon the carrier. In cases of shortage or damaged goods the receipt should be turned over to the carrier with the request that a notation of the damage or shortage be made on the freight or express bill. This will enable you to recover damage from the carrier without controversy.

Shortage on carload shipments should be reported immediately to the agent at destination. Damaged carload shipments should not be unloaded until the carrier's representative has made an inspection.

If by special request goods are shipped via carriers whose charges do not include insurance on the goods, we will not insure the shipment unless instructed to do so.

Claims on the railroads must be made within 6 months of receipt of shipment; claims on express companies within 4 months. Unless filed within these periods transportation companies cannot legally pay claims.

DEFECTIVE MATERIAL—All our materials are carefully inspected and tested before shipment, but in spite of the greatest care it is sometimes impossible to detect all imperfections. We guarantee to replace, with new material such goods as prove defective within a reasonable time when properly worked or used, but under no circumstances will we be responsible for any damage beyond this.

In case any shipment of metal proves unsuitable, it is understood that the buyer will immediately discontinue its use and advise the seller of the facts that the seller may have the opportunity of deciding what shall be done under the circumstances, so that possible loss or damage to either party shall be prevented or minimized. No charges for labor or expense required to repair defective goods or occasioned by them will be allowed.

deci

INDEX

1/3

1/16

3/3

1/8

5/3

3/16

7/3

1/4

9/3

5/16

11/3

3/8

13/3

7/16

15/3

1/2

DETROIT 12

Twinbrook
Mail Box 148
13400 Mt. E

A	Page	B	Page
A			
Abrasion Resisting Sheets and Plates	26	Bands, Steel	39
Accuracy Steel	53, 142-143, 146-147	Black	39
Acetylene Welding Rod	118-120	Bar Spring Steel	91-92
A.I.S.I.-S.A.E. Specifications	278-287	Bars	
Alloy Steel Bars	64-70	Alloy—Cold Drawn Steel	67-70
Carburizing	64, 67	Alloy—Hot Rolled Steel	64-66
Chemical Analyses	280-286	Aluminum	179-186
Cold Finished	67-70	Angles	14, 18, 188, 195, 227
Heat Treated	66, 69	Bands, Steel	39
Hot Rolled	64-66	Brass	217-222
Leaded	65, 67-70	Bronze	225-226
Physical Properties	290-294	Channels	12, 151
Aluminum		Copper	222-224
Angles	188, 195	Cumberland Shafting	54-56
Architectural Shapes	195-197	Cumsco Shafting	56
Beams	188, 197	Fatigue Proof	52
Bars	179-186	Flats	
Cast Plate	176	Cold Finished Steel	60-63
Channels	189, 197	Hot Rolled Steel	40-41
Coils	160-165	Free Cutting Rounds	
Coping	196	Aluminum	179-181
Corrugated	178	Brass	217
Dies	198-209	Stainless Steel	142-148
Extrusions	185-186, 188, 192-193, 195-209	Steel	36, 47-53
Fasteners	210-214	Half Ovals	38, 145
Flux	120	Half Rounds	38
Gravel Stops	196	Hexagons	57-58, 149-150, 182, 218, 212, 226
Jig Plate	176	High Carbon	33-37, 44-47, 50-56, 58, 65-66, 68-70, 91-92
Mesh	254	Naval Brass	221-222
Mouldings	196-197	Ovals	38
Nails	212	Physical Properties	288-304
Pattern Sheet	172-173	Potomac Shafting	55
Pipe	193-195	Reinforcing	18
Plate	174-177	Rounds, Alloy Steel	64-69
Rectangles	183-186	Rounds, Cold Finished Steel	45-46, 67-69, 123-126
Rod	179-186	Rounds, Hot Rolled Steel	33-36, 64-66, 91
Roofing Accessories	178	Rounds, Mild Steel	33-35
Screw-Bolts	210-214	Screw Steel	47-49, 53, 57-60
Sheets	159-173	Steel Shafting	45-47, 54-56
Sills	197	Special X Steel Rod	53
Solder	197	Spring Steel	91-92
Tees	188, 196	Squares	
Thresholds	196	Cold Drawn	59-60, 126
Tooling Plate	177	Hot Rolled	37, 91
Tread Plate	177	Stainless	142-148
Truck Body Shapes	197	Stressproof Steel	52, 53, 58
Tubing	189-193	Tees	16
Washers	215	Tool Steel	121-132
Weight Table	301-302	Weights of	263-275
Wire	187	Zees	17
Wire Mesh	254	Basic Wires	112-113
Zees	189	Beams	
Angles		Aluminum	188, 197
Aluminum	188, 195	I Beams	8
Bar Sizes	14, 18	Light Weight	8
Brass	227	Wide Flange	9-11
Cor-Ten	18	Bearings, Phosphor Bronze	252-253
Galvanized Steel	17		
Mild Steel	14-16		
Stainless Steel	151		
Structural Steel	15-16		
Area of Circles	256-259		
Armco Ingot Iron	88		
Enameling Sheets	88		
Vitreous Enameling Sheets	88		
Automotive Tubing	247		

INDEX

B	Page	C	Page
Bessemer Rods, Coppered.....	112	Copper—Continued	
Black Pipe.....	108	Pipe.....	245
Bolts.....	158, 210-213	Rods.....	222-224
Brass		Service Pipe.....	248
Angles.....	227	Sheets.....	236-238
Engravers.....	232	Tubing.....	246-248
Free Cutting Rod.....	217-221	Wire.....	251
Mesh.....	254	Copper Bearing Hot Rolled	
Muntz Metal.....	233	Sheets.....	75
Pipe.....	244	Coppered Basic Wire.....	112
Rods.....	217-221	Coppered Bessemer Rod.....	112
Sheets.....	228-234	Corrugated Sheets.....	87, 178
Shim.....	231	Cor-Ten Steel.....	18, 27
Tube.....	240-243	Cumberland Shafting.....	54-56
Wire.....	249	Cumsco Shafting.....	56
Wire Mesh.....	254	D	
Brazing Flux.....	118, 120	Data.....	278-314
Brinell Conversion Chart.....	287	Decimal Equiva-	
Bronze.....	224-226, 232-235,	lents.....	Inside Front Cover
	243, 250-253	Deep Drawing Sheets.....	79-80, 88
Bushing, Bronze.....	252-253	Diamond Brand Spring	
C		Steel.....	93
Car Channels.....	13	Drill Rod.....	121-132
Carbon Drill Rod.....	121-127	Duronze.....	225
Carbon, Welding.....	118-120	E	
Case Hardening Alloys.....	64, 67	Easy-Flo Silver Solder.....	116-117
Cast Plate.....	176	Easy-Flo Silver Alloys.....	116-117
Channels.....	12-13, 18, 151, 189, 197	Electrodes, Welding.....	118-120
Chemical Analyses.....	278-286,	Elephant Brand Phosphor	
	296, 303-304	Bronze.....	235, 250
Cloth, Wire.....	254	Enameling Sheets.....	88
Cor-Ten.....	18, 27	Estimating Tables	
Circumference and Area		Aluminum.....	301, 302
of Circles.....	256-259	Expanded Metal.....	31-32
Cold Finished Steel Bars		F	
Alloys.....	67-70	Fasteners.....	158, 210-215
Drill Rod.....	121-132	Fatigue Proof.....	52
Fatigue Proof.....	52	Fine Wire Mesh.....	254
Flats.....	60-63	Fire Box Steel Plate.....	23
Hexagons.....	57-58, 70	Flame Cutting.....	19
Rounds.....	45-56, 67-69	Flange Steel Plates.....	23
Seamless Steel		Flat Ground Stock.....	129-132
Tubing.....	94-104	Flat Steel	
Screw Steel.....	47-49, 53, 57-60	Cold Drawn.....	60-63
Shafting.....	45-47, 54-56	High Carbon.....	44, 92
Squares.....	59-60, 126	Hot Rolled.....	40-44
Stainless.....	142-150	Low Carbon.....	40-43
Stressproof.....	52, 53, 58	Spring Steel.....	92
Turned, Ground and		Stainless Steel.....	152
Polished.....	54-56	Weights of.....	267-275
Cold Rolled Steel		Flat Wire.....	90-91
Flat Wire.....	90-91	Flattened Mesh.....	32
Paintgrip Sheets.....	84	G	
Sheets.....	77-81, 84, 93		
Shim Steel.....	93		
Spring Steel.....	93		
Strip Steel.....	89		
Commercial			
Bronze.....	224-225, 234, 243		
Concrete			
Reinforcing Bars.....	18		
Conversion Chart.....	287		
Copper			
Bus Bar.....	223		
Hot Rolled.....	236		

INDEX

dec 1

1/32

1/16

3/32

1/8

5/32

3/16

7/32

1/4

9/32

5/16

11/32

3/8

13/32

7/16

15/32

1/2

DETROIT 12,
Twinbrook
Mail Box 148 H
13400 Mt. El

F	Page	H	Page
Floor Plates.....	28	Hot Rolled Steel	
Fluxes.....	118-120, 197	Alloys.....	64-66
Forged Steel Rounds.....	35	Angles, Bar and Structural.....	14-18
Four-Way Floor Plates.....	28	Bands.....	39
Free Machining Plate.....	24, 25	Beams.....	8-11, 18
Free Cutting Rounds		Channels.....	12-13, 18
Aluminum.....	179-181	Flats.....	40-44, 92
Brass.....	217	Forged Bars.....	35
Stainless Steel.....	142-148	Galvanized	
Steel.....	36, 47-53	Angles.....	17
Full Finished Sheets.....	77-81	Channels.....	17
G		Sheets.....	82-87
Gages.....	Inside Back Cover	Half Ovals.....	38
Galvanized Steel		Half Rounds.....	38
Angles.....	17	Strip Steel.....	39
Bands.....	17	Hydraulic Cylinder Tubing.....	104
Channels.....	17	Hydraulic Tube.....	104
Flats.....	17	I	
Nails.....	115	I Beam, Structural.....	8
Rounds.....	17	Inches to Feet.....	276-277
Sheets.....	82-87	Industrial	
Tees.....	17	Grating.....	29-31
Wire.....	112	Mesh.....	31-32, 254
Gas Tubing.....	191, 247	Iron, Armco Ingot	
Government Specs.		Vitreous Enameling.....	88
Brass and Copper.....	313-314	J	
Grating.....	29-30	Jig Plates.....	176
Ground Flat Stock.....	129-132	Junior Beams.....	8
Ground & Polished Accuracy		L	
Rod.....	53, 142-143, 146-147	Lead Coated Sheets.....	84
Ground and Polished		Leaded Alloy Bars.....	65, 67-70
Shafting.....	54-56	Ledloy.....	47-49, 57, 59
Steel.....	54-56	Light Weight Beams.....	8
H		Channels.....	13
H Sections.....	9-11	Long Terne Sheets.....	84
Half Ovals.....	38, 145	Luster Finish Sheets.....	80-81
Handy & Harman Alloys.....	116-118	M	
Handy Flux.....	118	Machine Bolts.....	158, 213
Hardness Conversion Chart.....	287	Mechanical Steel	
Heat Treated Alloys.....	66, 69	Tubing.....	94-103, 105-107
Hexagons		Mesh	
Aluminum.....	182	Aluminum.....	32, 254
Brass.....	218-222	Brass.....	254
Bronze.....	226	Expanded Steel.....	31-32
Cold Finished Steel.....	57-58, 70	Stainless Steel.....	31-32, 254
Phosphor Bronze.....	226	Industrial.....	31-32
Stainless Steel.....	149-150	Wire.....	254
Weights of.....	266-267	Mild Steel—See Hot Rolled	
High Carbon Steel		Monel Wire Mesh.....	254
Bars.....	33-37, 44-47, 50-58, 64-70, 91-92	Multigrip Floor Plate.....	28
Drill Rod.....	121-132	Muntz Metal.....	233
Plates.....	25	Music Wire.....	110-111
Sheet Spring Steel.....	91-93		G
Strip.....	92-93		
High Speed Drill Rod.....	128		
High Strength—Low Alloy.....	18, 27		
Hoisting Rope.....	255		

INDEX

N	Page
Nails	113-115, 158, 212
Naval Brass	221-222
Needle Bar Stock	53
Nickel Silver	227, 238-239, 251
Numerical Equivalents	Inside Back Cover
Nuts	158, 213-214

O

Oil Hardening Tool	
Steel	128-132
Open Steel Grating	29-31
Ovals Hot Rolled Steel	38

P

Paintgrip	
Cold Rolled Sheets	84
Galvanized Sheets	85
Paintlok Sheets	86
Panel and Sign Sheets	78, 84-86
Patent Leveled	
Sheets	78, 84-86
Phosphor	
Bronze	226, 235, 250, 252-253
Physical Properties	
Steel	288-295
Cor-Ten	295
Pipe	
Aluminum	193-195
Brass	244
Copper	245
Galvanized	108
Stainless	156-157
Steel	108
Plates	
Abrasion Resisting	26
Aluminum	174-177
Burning	19
Cast, Aluminum	176
Cor-Ten	27
Fire Box	23
Flange Steel	23
Floor	28
Four Way	28
Free Machining	24, 25
High Carbon	25
Jig, Aluminum	176
Mild Steel	20-22
Multigrip	28
Sheared	21-22
Stainless Steel	140-141
Tank Steel	20-22
Tooling, Aluminum	177
Traffic	28, 177
Tread	28, 177
Universal Mill	20
Weights Square Foot	141, 275
Potomac Shafting	55

R	Page
---	------

Rails	17
Rectangular Brass Rod	219-221
Refrigeration Tubing	247
Reinforcing Bars	18
Rivets	158
Rockwell Conversion Table	287
Rods	
Aluminum	179-186
Brass	217-222
Bronze	224-226
Copper	222-224
Coppered Bessemer	112
Drill	121-132
Naval Brass	221-222
Phosphor Bronze	226
Welding	118-120

Roofing, Accessories	
----------------------	--

Aluminum	178
----------	-----

Roofing Galvanized	87
--------------------	----

Rope, Wire	255
------------	-----

Round Edge Flat Wire	90-91
----------------------	-------

Rounds	
--------	--

Accuracy	
----------	--

Steel	53, 142-143, 146-147
-------	----------------------

Alloy Steel	64-69
-------------	-------

Aluminum	179-181
----------	---------

Brass	217-221
-------	---------

Bronze	225-226
--------	---------

Cold Finished	
---------------	--

Steel	45-56, 67-69, 123-126, 128
-------	----------------------------

Copper	222, 224
--------	----------

Drill Rod	123-126, 128
-----------	--------------

Forged Steel	35
--------------	----

Free Cutting	36, 47-53, 142-148,
--------------	---------------------

	179-181, 217
--	--------------

Heat Treated	66, 69
--------------	--------

High Carbon	33-36, 45-47, 50-53,
-------------	----------------------

	55-56, 65-66, 68-69, 91
--	-------------------------

Hot Rolled	
------------	--

Steel	33-36, 64-66, 91
-------	------------------

Mild Steel	34
------------	----

Naval Brass	221
-------------	-----

Phosphor Bronze	226
-----------------	-----

Screw Steel	47-49, 53
-------------	-----------

Shafting	45-47, 54-56
----------	--------------

Spring Steel	91
--------------	----

Stainless Steel	142-148
-----------------	---------

Stressproof Steel	52
-------------------	----

Tool Steel	123-128
------------	---------

Turned and Ground	54-56
-------------------	-------

Weights of	263-265
------------	---------

S

S.A.E., A.I.S.I.	
------------------	--

Specifications	278-286
----------------	---------

Scleroscope Conversion	
------------------------	--

Table	287
-------	-----

ANGLES
TEES-ZEESGRATING
EXP. METALH. R.
BARS
C. F.
BARSALLOY
BARS
SHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

INDEX

decin

1/32

1/16

3/32

5/32

3/16

7/32

9/32

5/16

11/32

13/32

7/16

15/32

DETROIT 12,
Twinbrook
Mail Box 148 H
13400 Mt. Ell

S	Page	S	Page
Screen Cloth.....	254	Sheets—Continued	
Screw Steel.....	47-49, 53, 57-60	Vitreous Enameling.....	88
Screws.....	158, 210-212	Zinc Grip Paint Grip.....	85
Seamless Steel		Shim Brass.....	231
Tubing.....	94-104, 154	Shim Steel.....	93
Shafting		Ship Channels.....	13
Cold Finished.....	45-47, 54-56	Shore Conversion Table.....	287
Turned, Ground and		Special X Rod.....	53, 142-143, 146-147
Polished.....	54-56	Splices.....	17
Shapes: Steel		Spring Steel	
Structural.....	8-17	Bar.....	91-92
Sheared Plates.....	21-22	Diamond Brand.....	93
Sheet Rivets.....	158	Sheet.....	91, 93
Sheets		Squares	
Abrasion Resisting.....	26	Brass.....	219
Aluminum.....	159-173	Cold Drawn Steel.....	59-60, 126
Armco Ingot Iron.....	88	Copper.....	222
Brass.....	228-234	Drill Rod.....	126
Bronze.....	235	High Carbon.....	37, 59-60, 70, 91, 126, 132
Cold Rolled.....	77-81, 84, 93	Hot Rolled.....	37, 91
Copper.....	236-238	Mild Steel.....	37
Copper Bearing.....	75	Spring Steel.....	91
Corrugated.....	87, 178	Stainless Steel.....	148-149
Cor-Ten.....	27	Stainless Steel	
Deep Drawing.....	79-80, 88	Angles.....	151
Enameling.....	88	Bars.....	142-152
Expanded Metal.....	31-32	Bolts.....	158
Full Finished.....	77-81	Channels.....	151
Furniture.....	77-81	Cold Heading Wire.....	153
Galvanized.....	82-87	Flats.....	152
High Carbon.....	76, 91, 93	Half Ovals.....	145
Hot Rolled.....	72-76, 91	Hexagons.....	149-150
Hot Rolled Pickled		Mesh.....	31-32, 254
and Oiled.....	74	Nails.....	158
Lead Coated.....	84	Nuts.....	158
Long Terne.....	84	Pipe.....	156-157
Mirror Finish.....	80-81	Plates.....	140-141
Nickel Silver.....	238-239	Rivets.....	158
Panel and Sign.....	78, 84-86	Rounds.....	142-148
Patent Leveled.....	78, 84-86	Screws.....	158
Pattern, Aluminum.....	172-173	Sheets.....	133-139
Paintgrip		Squares.....	148-149
Cold Rolled.....	84	Spring Wire.....	153
Galvanized.....	85	Tubing.....	154-155
Paintlok.....	86	Washers.....	158
Roofing and Siding.....	87, 178	Welding Rod.....	118
Shelf "X".....	32	Wire.....	153
Shim Steel.....	93	Wire Mesh.....	254
Siding Corrugated.....	87, 178	Stair Stringer Channels.....	13
Spring Steel.....	91, 93	Steel, Shim.....	93
Stainless.....	133-139	Steel Tubing.....	94-107, 154-155
Stretcher Leveled.....	78, 84-86	Stressproof Steel.....	52-53
Tool Steel.....	91	Stretcher Leveled	
		Sheets.....	78, 84-86

INDEX

BEAMS
CHANNELSANGLES
TEES-ZEES

PLATES

GRATING
EXP. METALH. R.
BARSC. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

Page

S

Page

V

Stringer Channels..... 13

Vitreous Enameling Sheets..... 88

Strip Steel

Cold Rolled..... 89

High Carbon..... 92-93

Hot Rolled..... 39

Structural Steel

Angles..... 15-16

Beams..... 8-11

Channels..... 12-13

H. Sections..... 9-11

Tees..... 16

Wide Flange..... 9-11

Zees..... 17

T

Tank Steel Plate..... 20-22

Tees..... 16

Terne Plate..... 84

Tinners Rivets..... 158

Tolerances
Tubing..... 109

Tool Steel..... 121-132

Trade Customs..... 1

Traffic Plates..... 28, 177

Tubing

Aluminum..... 118-193

Automotive..... 247

Brass..... 240-243

Copper..... 245-248

Cold Drawn Seamless

Steel..... 94-104

Hot Rolled..... 105-108

Hydraulic..... 104

Mechanical, Electric

Welded..... 105-107

Round Steel..... 94-106

Seamless Steel..... 94-104

Square Steel..... 107-108

Stainless Steel..... 154-155

Tolerances..... 109

Welded..... 104-108, 155

Turned, Ground and

Polished Shafting..... 54-56

U

Universal Mill Plates..... 20

Utilitube..... 191

Utility Sheet..... 165

G

W

Washers..... 158, 215

Weight

Steel Bars..... 263-275

Steel Plates..... 141, 275

Welding

Carbons..... 120

Electrodes..... 118-120

Flux..... 120

Rods..... 118-120

Welded Steel Tubing..... 104-107

Wide Flange Structural

Sections..... 9-11

Wire

Aluminum..... 187

Basic..... 112-113

Black Annealed..... 113

Brass..... 249

Bright Basic..... 112

Bronze..... 250

Copper..... 251

Coppered Basic..... 112

Coppered Bessemer..... 112

Flat—Round Edge

Cold Rolled..... 90-91

Galvanized Basic..... 112

Mesh..... 254

Music Wire..... 110-111

Nails..... 113-115, 158, 212

Nickel Silver..... 251

Phosphor Bronze..... 250

Rope..... 255

Stainless Steel..... 153

Tinned Music..... 111

Welding..... 118-120

Z

Zees..... 17

Zinc Grip..... 82-83, 85

Zinc Grip Paint Grip..... 85

deci:**1/32****1/16** —**3/32****1/8** —**5/32****3/16** —**7/32****1/4** —**9/32****5/16** —**11/32****3/8** —**13/32****7/16** —**15/32****1/2** —**I BEAMS—STRUCTURAL**

A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS

Sizes 12" and Smaller 20', 30', 40' and 55'/60'

Sizes over 12"—Random 55'/60'

Size in Inches	Weight per Ft. lbs.	Thickness of Web Inches	Width of Flange Inches	Size in Inches	Weight per Ft. lbs.	Thickness of Web Inches	Width of Flange Inches
3...	5.7	.170	2.330	12...	35.0	.428	5.087
	7.5	.349	2.509		40.8	.460	5.250
4...	7.7	.190	2.660		50.0	.687	5.477
	9.5	.326	2.796	15...	42.9	.410	5.500
5...	10.0	.210	3.000		50.0	.550	5.640
	14.75	.494	3.284	18...	54.7	.460	6.000
6...	12.5	.230	3.330		70.0	.711	6.251
	17.25	.465	3.565	20...	65.4	.500	6.250
7...	15.3	.250	3.660		75.0	.625	6.375
	20.0	.450	3.860		95.0	.813	7.250
8...	18.4	.270	4.000	24...	79.9	.500	7.000
	23.0	.441	4.171		90.0	.624	7.124
10...	25.4	.310	4.660		100.0	.747	7.247
	35.0	.594	4.944		105.9	.625	7.875
12...	31.8	.350	5.000				

For structural H Beams see page 9.

**JUNIOR BEAMS**

Copper Bearing



A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS

20', 30', 40' and 55'/60'

Size in Inches	Weight per Ft. lbs.	Flange Width Inches	Web Thickness Inches	Area Square Inches
6	4.40	1.844	.114	1.30
8	6.50	2.281	.135	1.92
10	9.00	2.688	.155	2.64
12	11.80	3.063	.175	3.45

DETROIT 12,

Twinbroo

Mail Box 148 I
13400 Mt. E



WIDE FLANGE STRUCTURAL AND H BEAMS



A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS
Sizes 12" and Smaller 20', 30', 40' and 55'/60'
Sizes over 12"—Random 55'/60'

Section & Size in Inches	Weight per Ft. lbs.	Depth of Section Inches	Flange		
			Width Inches	Thickness Inches	Web Thickness Inches
4x 4 H	13.0	4.00	3.937	.375	.250
5x 5 H	18.9	5.00	5.000	.483	.313
6x 4	8.5	5.83	3.940	.194	.170
	12.0	6.00	4.000	.279	.230
	16.0	6.25	4.030	.404	.260
6x 6	15.5	6.00	6.000	.269	.240
H	20.0	6.00	5.938	.380	.250
	25.0	6.37	6.080	.456	.320
H	25.0	6.00	5.938	.481	.313
8x 4	10.0	7.90	3.940	.204	.170
	13.0	8.00	4.000	.254	.230
	15.0	8.12	4.015	.314	.245
8x 5 1/4	17.0	8.00	5.250	.308	.230
	20.0	8.14	5.268	.378	.248
8x 6 1/2	24.0	7.93	6.500	.398	.245
	28.0	8.06	6.540	.463	.285
8x 8	31.0	8.00	8.000	.433	.288
H	34.3	8.00	8.000	.438	.375
	35.0	8.12	8.027	.493	.315
	40.0	8.25	8.077	.558	.365
	48.0	8.50	8.117	.683	.405
	58.0	8.75	8.222	.808	.510
	67.0	9.00	8.287	.933	.575
10x 4	11.5	9.87	3.950	.204	.180
	15.0	10.00	4.000	.269	.230
	17.0	10.12	4.010	.329	.240
	19.0	10.25	4.020	.394	.250
10x 5 3/4	21.0	9.90	5.750	.340	.240
	25.0	10.08	5.762	.430	.252
	29.0	10.22	5.799	.500	.289
10x 8	33.0	9.75	7.964	.433	.292
	39.0	9.94	7.990	.528	.318
	45.0	10.12	8.022	.618	.350
10x10	49.0	10.00	10.000	.559	.340
	54.0	10.12	10.028	.618	.368
	60.0	10.25	10.075	.683	.415
	66.0	10.38	10.117	.748	.457
	72.0	10.50	10.170	.808	.510
	77.0	10.62	10.195	.868	.535
	89.0	10.88	10.275	.998	.615
	100.0	11.12	10.345	1.118	.685
	112.0	11.38	10.415	1.248	.755

(Continued on following page)

BEAMS CHANNELS

ANGLES TEES-ZEES

PLATES

GRATING EXP. METAL

H. R. BARS

C. F. BARS

ALLOY BARS

SHEETS STRIP

STEEL TUBING

WIRE DRILL ROD

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA

W

E
use
ViteCAGE
CHIMAL

.004

.005

.006

.007

.008

.009

.010

.011

.012

.013

.014

.016

.018

.020

.022

.024

.026

.029

.031

.033

.035

.037

.039

.041

.043

.045

.047

.049

.051

.055

.059

.063

.067

.071

.075

.080

.085

.090

.095

.100

.106

.112

.118

.124

MUSIC

WIRE

SPRING

WIRE



WIDE FLANGE STRUCTURAL BEAMS



A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS

Sizes 12" and Smaller 20', 30', 40' and 55'/60'
Sizes over 12"—Random 55'/60'

(Continued from preceding page)

3/32

Section & Size in Inches	Weight per Ft. lbs.	Depth of Section Inches	Flange			Web Thickness Inches
			Width Inches	Thickness Inches		
12x 4	14.0	11.91	3.970	.224	.200	
	16.5	12.00	4.000	.269	.230	
	19.0	12.16	4.010	.349	.240	
	22.0	12.31	4.030	.424	.260	

5/32

12x 6½	27.0	11.96	6.500	.400	.240
	31.0	12.09	6.525	.465	.265
	36.0	12.24	6.565	.540	.305

7/32

12x 8	40.0	11.94	8.000	.516	.294
	45.0	12.06	8.042	.576	.336
	50.0	12.19	8.077	.641	.371

9/32

12x10	53.0	12.06	10.000	.576	.345
	58.0	12.19	10.014	.641	.359

5/16

12x12	65.0	12.12	12.000	.606	.390
	72.0	12.25	12.040	.671	.430
	79.0	12.38	12.080	.736	.470
	85.0	12.50	12.105	.796	.495
	92.0	12.62	12.155	.856	.545
	99.0	12.75	12.190	.921	.580
	106.0	12.88	12.230	.986	.620
	120.0	13.12	12.320	1.106	.710
	133.0	13.38	12.365	1.236	.755

11/32

14x 6¾	30.0	13.86	6.733	.383	.270
	34.0	14.00	6.750	.453	.287
	38.0	14.12	6.776	.513	.313

7/16

14x 8	43.0	13.68	8.000	.528	.308
	48.0	13.81	8.031	.593	.339
	53.0	13.94	8.062	.658	.370

13/32

14x10	61.0	13.91	10.000	.643	.378
	68.0	14.06	10.040	.718	.418
	74.0	14.19	10.072	.783	.450

15/32

14x12	78.0	14.06	12.000	.718	.428
	84.0	14.18	12.023	.778	.451

1/2

14x14½	87.0	14.00	14.500	.688	.420
	95.0	14.12	14.545	.748	.465
	103.0	14.25	14.525	.813	.495

DETROIT 12,

Twinbrook
Mail Box 148 I
13400 Mt. E

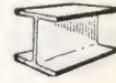
16x 7	36.0	15.85	6.992	.428	.299
	40.0	16.00	7.000	.503	.307
	45.0	16.12	7.039	.563	.346
	50.0	16.25	7.073	.628	.380

16x 8½	58.0	15.86	8.464	.645	.407
	64.0	16.00	8.500	.715	.443
	71.0	16.16	8.543	.795	.486
	78.0	16.32	8.586	.875	.529

(Continued on following page)



WIDE FLANGE STRUCTURAL BEAMS



A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS
Sizes over 12"—Random 55'/60'

(Continued from preceding page)

Section & Size in Inches	Weight per Ft. lbs.	Depth of Section Inches	Flange		Web Thickness Inches
			Width Inches	Thickness Inches	
16x11½	88.0	16.16	11.502	.795	.504
	96.0	16.32	11.533	.875	.535
18x 7½	50.0	18.00	7.500	.570	.358
	55.0	18.12	7.532	.630	.390
	60.0	18.25	7.558	.695	.416
18x 8¾	64.0	17.87	8.715	.686	.403
	70.0	18.00	8.750	.751	.438
	77.0	18.16	8.787	.831	.475
	85.0	18.32	8.838	.911	.526
18x11¾	96.0	18.16	11.750	.831	.512
	105.0	18.32	11.792	.911	.554
	114.0	18.48	11.833	.991	.595
21x 8¼	62.0	20.99	8.240	.615	.400
	68.0	21.13	8.270	.685	.430
	73.0	21.24	8.295	.740	.455
21x 9	82.0	20.86	8.962	.795	.499
	96.0	21.14	9.038	.935	.575
21x13	112.0	21.00	13.000	.865	.527
	127.0	21.24	13.061	.985	.588
	142.0	21.46	13.132	1.095	.659
24x 9	76.0	23.91	8.985	.682	.440
	84.0	24.09	9.015	.772	.470
	94.0	24.29	9.061	.872	.516
24x12	100.0	24.00	12.000	.775	.468
	110.0	24.16	12.042	.855	.510
	120.0	24.31	12.088	.930	.556
24x14	130.0	24.25	14.000	.900	.565
	145.0	24.49	14.043	1.020	.608
27x10	94.0	26.91	9.990	.747	.490
	102.0	27.07	10.018	.827	.518
	114.0	27.28	10.070	.932	.570
27x14	145.0	26.88	13.965	.975	.600
30x10½	108.0	29.82	10.484	.760	.548
	116.0	30.00	10.500	.850	.564
	124.0	30.16	10.521	.930	.585
	132.0	30.30	10.551	1.000	.615
30x15	172.0	29.88	14.985	1.065	.655
	190.0	30.12	15.040	1.185	.710
	210.0	30.38	15.105	1.315	.775
33x11½	130.0	33.10	11.510	.855	.580
	141.0	33.31	11.535	.960	.605
	152.0	33.50	11.565	1.055	.635
33x15¾	200.0	33.00	15.750	1.150	.715

ANGLES
TEES-ZEES

PLATES

GRATING
EXP. METALH. R.
BARSC. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



CHANNELS, BAR SIZE



1/32

M1020—Mild Steel Merchant Quality

1/16

STOCK LENGTHS 20 FT.

3/32

	Size in Inches	Weight per Foot Lbs.	Est. Wt. 20' Bar		Size in Inches	Weight per Foot Lbs.	Est. Wt. 20' Bar
	3/4x 5/16x 1/8	.50	10.00		1 1/2x 9/16x 3/16	1.44	28.80
	3/8x No. 15	.40	8.00		3/4x 1/8	1.17	23.40
	3/8x 1/8	.56	11.20		1 1/2x 3/16	2.65	53.00
	7/8x 3/8x 1/8	.61	12.20		1 3/4x 1/2x 3/16	1.55	31.00
	7/16x 1/8	.69	13.80		2 x 1/2x 1/8	1.33	26.60
3/16	1 x 3/8x 1/8	.68	13.60		9/16x 3/16	1.86	37.20
	1/2x 1/8*	.84	16.80		5/8x 1/4	2.28	45.60
7/32	1 1/8x 9/16x 3/16	1.16	23.20		1 x 1/8	1.59	31.80
	1 1/4x 1/2x 1/8	.99	19.80		1 x 3/16	2.32	46.40
	1 1/2x 1/2x 1/8	1.12	22.40		2 1/2x 5/8x 3/16	2.27	45.40

*Also stocked in 40 ft. lengths.

9/32



CHANNELS, STRUCTURAL



5/16

11/32

A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS

13/32

Sizes 12" and Smaller—20', 30', 40' and 55'/60'

Sizes over 12"—Random 55'/60'

7/16

15/32

Depth Channel Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches	Depth Channel Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches
3 . . .	4.1 . . .	170 . . .	1.410	10 . . .	8.4 . . .	170 . . .	1.500
	5	.258	1.498		15.3	.240	2.600
	6	.356	1.596		20	.379	2.739
4 . . .	5.4 . . .	180 . . .	1.580		25	.526	2.886
	7.25	.320	1.720		30	.673	3.033
5 . . .	6.7 . . .	190 . . .	1.750	12 . . .	10.6 . . .	190 . . .	1.500
	9	.325	1.885		20.7	.280	2.940
6 . . .	8.2 . . .	200 . . .	1.920		25	.387	3.047
	10.5	.314	2.034		30	.510	3.170
	13	.437	2.157	13 . . .	31.8 . . .	375 . . .	4.000
7 . . .	9.8 . . .	210 . . .	2.090		35	.447	4.072
	12.25	.314	2.194		40	.560	4.185
	14.75	.419	2.299		50	.787	4.412
8 . . .	11.5 . . .	220 . . .	2.260	15 . . .	33.9 . . .	400 . . .	3.400
	13.75	.303	2.343		40	.520	3.520
	18.75	.487	2.527		50	.716	3.716
9 . . .	13.4 . . .	230 . . .	2.430	18 . . .	42.7 . . .	450 . . .	3.950
	15	.285	2.485		45.8	.500	4.000
	20	.448	2.648		51.9	.600	4.100
					58	.700	4.200

TROI 12

Twinbrod

Mail Box 148

13400 Mt. E



SHIP AND CAR CHANNELS

ANGLES
TEES-ZEES

A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

Depth of Channel Inches	Weight per Ft. Lbs.	Thickness of Web Inches	Width of Flange Inches	Stock Lengths Feet
3.....	7.1.....	.313.....	1.938.....	20, 30, 40 and 55-60
	9.0	.500	2.125	20, 30, 40 and 55-60
4.....	13.8.....	.500.....	2.500.....	20, 30, 40 and 55-60
6.....	12.0.....	.313.....	2.500.....	20, 30, 40 and 55-60
	15.3	.340	3.500	20, 30, 40 and 55-60
	16.3	.375	3.000	20, 30, 40 and 55-60
	18.0	.375	3.500	20, 30, 40 and 55-60
7.....	17.6.....	.375.....	3.000.....	20, 30, 40 and 55-60
	19.1	.350	3.450	20, 30, 40 and 55-60
	22.7	.500	3.600	20, 30, 40 and 55-60
8.....	18.7.....	.350.....	2.975.....	20, 30, 40 and 55-60
	21.4	.375	3.450	20, 30, 40 and 55-60
	22.8	.425	3.500	20, 30, 40 and 55-60
9.....	23.9.....	.400.....	3.450.....	20, 30, 40 and 55-60
	25.4	.450	3.500	20, 30, 40 and 55-60
10.....	21.9.....	.325.....	3.450.....	20, 30, 40 and 55-60
12.....	35.0.....	.467.....	3.767.....	20, 30, 40 and 55-60
	45	.712	4.012	20, 30, 40 and 55-60
	50	.835	4.135	20, 30, 40 and 55-60
13.....	31.8.....	.375.....	4.000.....	Random 55-60
	35.0	.447	4.072	Random 55-60
	40.0	.560	4.185	Random 55-60
	50.0	.787	4.412	Random 55-60
18.....	42.7.....	.450.....	3.950.....	Random 55-60
	45.8	.500	4.000	Random 55-60
	51.9	.600	4.100	Random 55-60
	58.0	.700	4.200	Random 55-60



LIGHT WEIGHT CHANNELS



STAIR STRINGER CHANNELS

A light weight rolled channel designed primarily for stair stringers but also adaptable on structural applications where light weight and wide web are desired.

A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

Depth Channel Inches	Weight per Ft. lbs.	Web Thickness	Width of Flange	Stock Lengths Feet
10	6.5	.150	1.125	20, 30, 40 and 55-60
10	8.4	.170	1.500	20, 30, 40 and 55-60
12	10.6	.190	1.500	20, 30, 40 and 55-60



ANGLES—BAR SIZES



M1020

Merchant Quality

1/32

1/16

3/32

5/32

3/16

7/32

5/16

11/32

13/32

7/16

15/32

TROY 12,
Twinbrook
ail Box 148 H:
13400 Mt. Ell

Size in Inches	Weight per Foot Lbs.	Est. Wt. 20' Bar	Stock Lengths Feet
1/2x 1/2x 1/8	.38	7.60	20
5/8x 5/8x 1/8	.48	9.60	20
3/4x 3/4x 1/8	.59	11.80	20
7/8x 7/8x 1/8	.70	14.00	20
1 x 5/8x 1/8	.64	12.80	20
3/4x 1/8	.70	14.00	20
1 x 1 x 1/8	.80	16.00	20, 40
3/16	1.16	23.20	20, 40
1/4	1.49	29.80	20, 40
1 1/8x 1 1/8x 1/8	.90	18.00	20
1 1/4x 1 1/4x 1/8	1.01	20.20	20, 40
3/16	1.48	29.60	20, 40
1/4	1.92	38.40	20, 40
1 3/8x 7/8x 1/8	.91	18.20	20, 40
3/16	1.32	26.40	20
1 1/2x 1 1/4x 3/16	1.64	32.80	20
1 1/2x 1 1/2x 1/8	1.23	24.60	20, 40
3/16	1.80	36.00	20, 40
1/4	2.34	46.80	20, 40
5/16	2.86	57.20	20, 40
1 3/4x 1 1/4x 1/8	1.23	24.60	20
3/16	1.80	36.00	20
1/4	2.34	46.80	20
1 3/4x 1 3/4x 1/8	1.44	28.80	20, 40
3/16	2.12	42.40	20, 40
1/4	2.77	55.40	20, 40
2 x 1 1/4x 3/16	1.96	39.20	20, 40
1/4	2.55	51.00	20, 40
2 x 1 1/2x 1/8	1.44	28.80	20, 40
3/16	2.12	42.40	20, 40
1/4	2.77	55.40	20, 40
2 x 2 x 1/8	1.65	33.00	20, 40
3/16	2.44	48.80	20, 40
1/4	3.19	63.80	20, 40
5/16	3.92	78.40	20, 40
3/8	4.70	94.00	20, 40
2 1/4x 1 1/2x 3/16	2.28	45.60	20, 40
2 1/2x 1 1/2x 3/16	2.44	48.80	20, 40
1/4	3.19	63.80	20, 40
5/16	3.92	78.40	20, 40
2 1/2x 2 x 3/16	2.75	55.00	20, 40
1/4	3.62	72.40	20, 40
5/16	4.50	90.00	20, 40
3/8	5.30	106.00	20, 40
2 1/2x 2 1/2x 3/16	3.07	61.40	20, 40
1/4	4.10	82.00	20, 40
5/16	5.00	100.00	20, 40
3/8	5.90	118.00	20, 40
1/2	7.70	154.00	20, 40



ANGLES—STRUCTURAL



A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

ANGLES
TEES-ZEES

STOCK LENGTHS

6x6x $\frac{1}{2}$ " and Smaller—20', 30', 40' and 55'/60'6x6x $\frac{5}{8}$ " and Larger—Random 55'/60"

	Size in Inches	Weight per Foot Lbs.		Size in Inches	Weight per Foot Lbs.
3	x2 x $\frac{3}{16}$	3.07		4 x4 x $\frac{5}{8}$	15.7
	$\frac{1}{4}$	4.1		$\frac{3}{4}$	18.5
	$\frac{5}{16}$	5.0			
	$\frac{3}{8}$	5.9			
	$\frac{1}{2}$	7.7			
3	x2 $\frac{1}{2}$ x $\frac{1}{4}$	4.5		5 x3 x $\frac{1}{4}$	6.6
	$\frac{5}{16}$	5.6		$\frac{5}{16}$	8.2
	$\frac{3}{8}$	6.6		$\frac{3}{8}$	9.8
	$\frac{1}{2}$	8.5		$\frac{1}{16}$	11.3
				$\frac{1}{2}$	12.8
3	x3 x $\frac{3}{16}$	3.71		5 x3 $\frac{1}{2}$ x $\frac{1}{4}$	7.0
	$\frac{1}{4}$	4.9		$\frac{5}{16}$	8.7
	$\frac{5}{16}$	6.1		$\frac{3}{8}$	10.4
	$\frac{3}{8}$	7.2		$\frac{1}{16}$	12.0
	$\frac{7}{16}$	8.3		$\frac{1}{2}$	13.6
	$\frac{1}{2}$	9.4		$\frac{5}{8}$	16.8
				$\frac{3}{4}$	19.8
3 $\frac{1}{2}$	x2 $\frac{1}{2}$ x $\frac{1}{4}$	4.9		5 x5 x $\frac{5}{16}$	10.3
	$\frac{5}{16}$	6.1		$\frac{3}{8}$	12.3
	$\frac{3}{8}$	7.2		$\frac{7}{16}$	14.3
	$\frac{1}{2}$	9.4		$\frac{1}{2}$	16.2
				$\frac{5}{8}$	20.0
				$\frac{3}{4}$	23.6
3 $\frac{1}{2}$	x3 x $\frac{1}{4}$	5.4		6 x3 $\frac{1}{2}$ x $\frac{5}{16}$	9.8
	$\frac{5}{16}$	6.6		$\frac{3}{8}$	11.7
	$\frac{3}{8}$	7.9		$\frac{7}{16}$	13.5
	$\frac{1}{2}$	10.2		$\frac{1}{2}$	15.3
3 $\frac{1}{2}$	x3 $\frac{1}{2}$ x $\frac{1}{4}$	5.8			
	$\frac{5}{16}$	7.2		6 x4 x $\frac{5}{16}$	10.3
	$\frac{3}{8}$	8.5		$\frac{3}{8}$	12.3
	$\frac{7}{16}$	9.8		$\frac{7}{16}$	14.3
	$\frac{1}{2}$	11.1		$\frac{1}{2}$	16.2
				$\frac{5}{8}$	20.0
4	x3 x $\frac{1}{4}$	5.8			
	$\frac{5}{16}$	7.2		$\frac{3}{4}$	23.6
	$\frac{3}{8}$	8.5		$\frac{7}{8}$	27.2
	$\frac{7}{16}$	9.8			
	$\frac{1}{2}$	11.1		6 x6 x $\frac{3}{8}$	14.9
	$\frac{5}{8}$	13.6		$\frac{7}{16}$	17.2
4	x3 $\frac{1}{2}$ x $\frac{1}{4}$	6.2		$\frac{1}{2}$	19.6
	$\frac{5}{16}$	7.7		$\frac{5}{8}$	24.2
	$\frac{3}{8}$	9.1			
	$\frac{7}{16}$	10.6		$\frac{3}{4}$	28.7
	$\frac{1}{2}$	11.9		$\frac{7}{8}$	33.1
				1	37.4
4	x4 x $\frac{1}{4}$	6.6		7 x4 x $\frac{3}{8}$	13.6
	$\frac{5}{16}$	8.2		$\frac{7}{16}$	15.8
	$\frac{3}{8}$	9.8		$\frac{1}{2}$	17.9
	$\frac{7}{16}$	11.3		$\frac{9}{16}$	20.0
	$\frac{1}{2}$	12.8		$\frac{5}{8}$	22.1
				$\frac{3}{4}$	26.2
				$\frac{7}{8}$	30.2

(Continued on following page)



ANGLES—STRUCTURAL



A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS

1/16

3/32

5/32

3/16

7/32

9/32

5/16

11/32

13/32

7/16

15/32

TROIT 12,
Twinbrook
Mail Box 148 H
13400 Mt. Ell

6x6x $\frac{5}{8}$ " and Larger—Random 55'/60'

(Continued from preceding page)

Size in Inches			Weight per Foot Lbs.	Size in Inches			Weight per Foot Lbs.
8	x4	$x\frac{1}{2}$	19.6	8	x8	$x\frac{1}{2}$	26.4
8	x6	$x\frac{1}{2}$	23.0			$\frac{5}{8}$	32.7
		$\frac{5}{8}$	28.5			$\frac{3}{4}$	38.9
		$\frac{3}{4}$	33.8			$\frac{7}{8}$	45.0
		$\frac{7}{8}$	39.1			1	51.0
		1	44.2				



TEES—STRUCTURAL

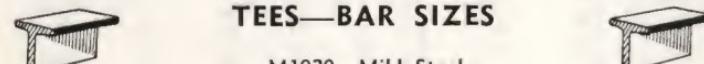
Specify Tees by Flange First, Then Stem and Thickness

A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS

20', 30', 40' and 55'/60'

Flange Inches	Size Stem Inches	Thickness Inches	Weight per Foot Lbs.	Flange Inches	Size Stem Inches	Thickness Inches	Weight per Foot Lbs.
3	$2\frac{1}{2}$	$\frac{5}{16}$	6.1	4	3	$\frac{3}{8}$	9.2
	3	$\frac{5}{16}$	6.7		4	$\frac{1}{2}$	13.5
		$\frac{3}{8}$	7.8	5	$3\frac{1}{8}$	$\frac{1}{2}$	13.6



TEES—BAR SIZES

M1020—Mild Steel



Merchant Quality

STOCK LENGTHS 20ft.

Flange Inches	Size Stem Inches	Thickness Inches	Weight per Foot Lbs.	Flange Inches	Size Stem Inches	Thickness Inches	Weight per Foot Lbs.
$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{8}$	.62	$1\frac{3}{4}$	$1\frac{3}{4}$	$\frac{1}{4}$	2.90
1	1	$\frac{1}{8}$	.85	2	$1\frac{1}{2}$	$\frac{1}{4}$	3.12
		$\frac{3}{16}$	1.20	2	2	$\frac{1}{4}$	3.62
1 $\frac{1}{4}$	$1\frac{1}{4}$	$\frac{1}{8}$	1.09			$\frac{5}{16}$	4.40
		$\frac{3}{16}$	1.55	2 $\frac{1}{4}$	$2\frac{1}{4}$	$\frac{1}{4}$	4.10
		$\frac{1}{4}$	1.93			$\frac{5}{16}$	4.60
1 $\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{16}$	1.90	2 $\frac{1}{2}$	$2\frac{1}{2}$	$\frac{1}{4}$	5.50
		$\frac{1}{4}$	2.43			$\frac{5}{16}$	6.40
1 $\frac{3}{4}$	$1\frac{3}{4}$	$\frac{3}{16}$	2.18			$\frac{3}{8}$	G



ZEEs



Bars—M1020 Copper Bearing

Structurals—A.S.T.M. A-7-56T 60,000/72,000 P.S.I.

STOCK LENGTHS

Bar Zees—20' and 40'

Structural Zees—20', 30', 40' and Random 55'/60'

Flange Inches	Web Inches	Flange Inches	Thickness Inches	Weight per Foot Lbs.
1 1/4	1 3/4	1 3/4	3/16	2.79
1 3/4	1 3/4	1 3/4	3/16	3.16
2 11/16	3	2 11/16	1/4	6.7
2 11/16	3	2 11/16	3/8	9.8
2 11/16	3	2 11/16	1/2	12.6
3 1/16	4	3 1/16	1/4	8.2
3 1/8	4 1/16	3 1/8	5/16	10.3
3 1/8	4 1/16	3 1/8	1/2	15.9
3 3/16	4 1/8	3 3/16	3/8	12.5
3 1/4	5	3 1/4	5/16	11.6
3 1/4	5	3 1/4	1/2	17.9
3 5/16	5 1/16	3 5/16	3/8	14.0
3 1/2	6	3 1/2	3/8	15.7
3 5/8	6 1/8	3 5/8	1/2	21.1



RAILS



Open Hearth, New Billet Steel—A.S.C.E. Sections.

Wt. per Yard	Sec- tion No.	Height in Inches	Width of Base	Width of Head	Stock Lengths Feet	Track Bolts to Be Used	Track Spikes to Be Used
20	2040	2 5/8	2 5/8	1 11/32	30	1/2x2	1/2x3 1/2
25	2540	2 3/4	2 3/4	1 1/2	30	1/2x2 1/4	1/2x4
30	3040	3 1/8	3 1/8	1 11/16	30	5/8x2 1/2	1/2x4
40	4040	3 1/2	3 1/2	1 7/8	30	3/4x3	1/2x5
60	6040	4 1/4	4 1/4	2 3/8	30,33	3/4x3 1/2	9/16x5 1/2
80	8040	5	5	2 1/2	39	7/8x4 1/8	9/16x5 1/2



STEEL SPlices



Rail Size Lbs.	Track Bolts to Be Used	Weight per Pair Lbs.	Lengths in Inches	Rail Size Lbs.	Track Bolts to Be Used	Weight per Pair Lbs.	Lengths in Inches
20	1/2x2	5.69	16 1/8	40	3/4x3	14.26	20
25	1/2x2 1/8	6.56	16 1/8	60	3/4x3 1/2	32.30	24
30	5/8x2 1/2	8.99	16 1/8	80	7/8x4 1/8	62.58	34

Plain joints for 20 to 40 lb. rails are furnished complete with bolts. Angle joints without bolts are furnished for rails 60 lbs. and heavier. Weights shown include bolts. Joints used with rails 60 lbs. and under have 4 holes; 80 lbs. and over have 6 holes.

SHAPES—GALVANIZED

All of the Bar size and Structural sections to 20 feet in length can be galvanized to your order quite promptly.

Galvanized extras are subject to quotation as prices vary according to weight and length.

Ch. M

PLATES

GRATING
EXP. METALH. R.
BARSC. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

COR-TEN HIGH STRENGTH STEEL COR-TEN ANGLES

SAE 950

Chemical and Physical Properties on page 295.
Identification Color—Peach.

1/32

1/16

3/32

5/32

3/16

7/32

	Size in Inches	Weight per Foot Lbs.	Size in Inches	Weight per Foot Lbs.
1	x1 x $\frac{1}{8}$	.80	2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x $\frac{3}{16}$	3.07
1 $\frac{1}{4}$	x1 $\frac{1}{4}$ x $\frac{1}{8}$	1.01	$\frac{1}{4}$	4.10
	$\frac{3}{16}$	1.48	$\frac{5}{16}$	5.00
1 $\frac{1}{2}$	x1 $\frac{1}{2}$ x $\frac{1}{8}$	1.23	3 x2 x $\frac{3}{16}$	3.07
	$\frac{3}{16}$	1.80	$\frac{1}{4}$	4.1
	$\frac{1}{4}$	2.34	3 x3 x $\frac{3}{16}$	3.71
2	x2 x $\frac{1}{8}$	1.65	4 x3 x $\frac{1}{4}$	5.8
	$\frac{3}{16}$	2.44	$\frac{5}{16}$	7.2
	$\frac{1}{4}$	3.19	4 x4 x $\frac{1}{4}$	6.6

COR-TEN CHANNELS

Identification Color—Peach. SAE 950

9/32

5/16

11/32

Depth Channel Inches	Weight per Ft. lbs.	Thickness of Web Inches	Width of Flange Inches	Depth Channel Inches	Weight per Ft. lbs.	Thickness of Web Inches	Width of Flange Inches
3.....	4.1.....	170.....	1.410	5.....	6.7.....	190.....	1.750
4.....	5.4.....	180.....	1.580	6.....	8.2.....	200.....	1.920

COR-TEN I BEAMS

Identification Color—Peach. SAE 950

13/32

7/16

15/32

Size in Inches	Weight per Ft. lbs.	Thickness of Web Inches	Width of Flange Inches
4.....	7.7.....	.190.....	2.660
5.....	10.0.....	.210.....	3.000
6.....	12.5.....	.230.....	3.330

CONCRETE REINFORCING BARS

NEW BILLET—DEFORMED BARS

ASTM Steel Specification A15-54T and A305-56T

Intermediate Grade

Bar Size Inches	Bar No.	Weight Per Ft. Pounds	Dia. Inches	Area Sq. Inches	Perimeter Inches
$\frac{1}{4}$ " Rd.	2	.167	.250	.05	.786
$\frac{3}{8}$ " Rd.	3	.376	.375	.11	1.178
$\frac{1}{2}$ " Rd.	4	.668	.500	.20	1.571
$\frac{5}{8}$ " Rd.	5	1.043	.625	.31	1.963
$\frac{3}{4}$ " Rd.	6	1.502	.750	.44	2.356
$\frac{7}{8}$ " Rd.	7	2.044	.875	.60	2.749
1" Rd.	8	2.670	1.000	.79	3.142
1" Sq.	9	3.400	1.128	1.00	3.544
$1\frac{1}{8}$ " Sq.	10	4.303	1.270	1.27	3.990
$1\frac{1}{4}$ " Sq.	11	5.313	1.410	1.56	4.430

No. 2 bars are plain round. Bars No. 9, 10 and 11 are round bars equivalent in area to square bar in size shown.

Ch. M

DETROIT 12
Twinbro
ail Box 148
13400 Mt. I

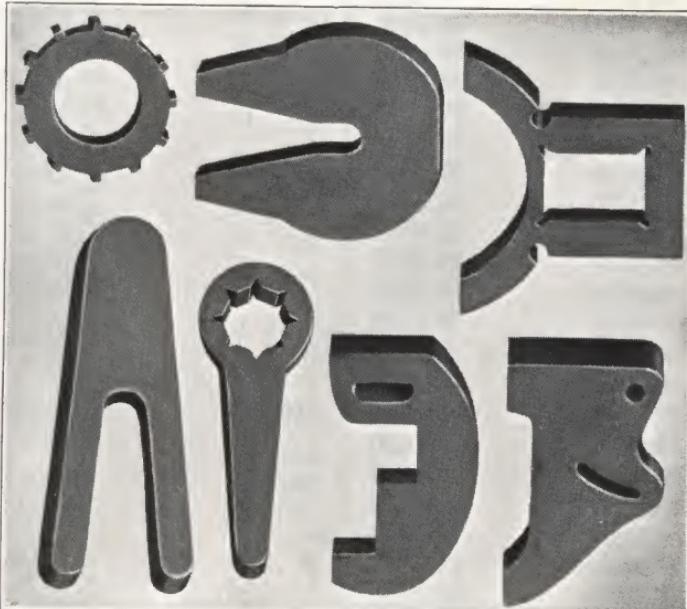
FLAME CUTTING



Central Steel & Wire Company has the most modern and complete flame cutting service available, from simple straight line burning to cutting the most intricate shapes on our automatic equipment.

This service makes it possible to use rolled steel plate in many applications where castings were previously used, making a stronger and less expensive part. In many cases rolled plate can be used to replace more expensive forgings.

Our most complete stocks of carbon and stainless steel plate and our up to date and well equipped cutting departments enables Central Steel & Wire to give Quality and Service.



PLATES	.004 .005 .006 .007 .008
GRATING EXP. METAL	.009 .010 .011 .012 .013
H. R. BARS	.014 .016 .018 .020 .022
C. F. BARS	.024 .026 .029 .031 .033
ALLOY BARS	.035 .037 .039 .041 .043
SHEETS STRIP	.045 .047 .049 .051 .055
STEEL TUBING	.059 .063 .067 .071 .075
WIRE DRILL ROD	.080 .085 .090 .095 .100
STAINLESS STEELS	.106 .112 .118 .124
LUMINUM	MUSIC WIRE PRING WIRE
BRASS COPPER	
WEIGHTS DATA	

UNIVERSAL MILL PLATES



Open Hearth Steel



3/16" to 1 1/2" Thick Incl. A.S.T.M. A-7-56T

Over 1 1/2" Thick—.20 to .30 Carbon Killed Steel

1/16 —

3/3

5/3

3/16 —

7/3

9/3

5/16 —

11/3

13/3

7/16 —

15/3

TROI 12
Twinbro
ail Box 148
13400 Mt.

STOCK LENGTHS 20' and 30'

	Size in Inches	Weight per Ft. Lbs.	Size in Inches	Weight per Ft. Lbs.
	3/16 x 7 to 12 See H.R. Strip (Page 44)		1/2 x 20	34.00
			22	37.40
	3/16 x 14 to 24 See H.R. Sheets (Page 87)		24	40.80
3/16 —	1/4 x 9	7.65	5/8 x 9	19.13
	10	8.50	10	21.25
	11 1/2	9.78	12	25.50
7/3	12	10.20	14	29.75
	14	11.90	16	34.00
	15	12.57	18	38.25
	16	13.60	20	42.50
	18	15.30	22	46.75
9/3	20	17.00	24	51.00
	22	18.70	3/4 x 9	22.95
	24	20.40	10	25.50
5/16 —	5/16 x 9	9.56	12	30.60
	10	10.63	14	35.70
11/3	11 1/2	10.22	16	40.80
	12	12.75	18	45.90
	14	14.88	20	51.00
	16	17.00	22	56.10
13/3	18	19.13	24	61.20
	20	21.25	5/8 x 10	29.75
7/16 —	24	25.50	12	35.70
	5/8 x 10	12.75	14	41.65
15/3	11 1/2	14.66	16	47.60
	12	15.30	24	71.40
	14	17.85	1 x 9	30.60
	15	19.13	10	34.00
	16	20.40	12	40.80
	18	22.95	14	47.60
	20	25.50	16	54.40
	22	28.05	18	61.20
	24	30.60	20	68.00
	7/16 x 10	14.88	24	81.60
	12	17.85	1 1/4 x 10	42.50
	14	20.83	12	51.00
	16	23.80	1 1/2 x 10	51.00
	24	35.70	12	61.20
	1/2 x 9	15.30	1 3/4 x 10	59.50
	10	17.00	12	71.40
	12	20.40	2 x 10	68.00
	14	23.80		
	16	27.20		
	18	30.60		

SHEARED PLATES

Open Hearth Steel



3/16" to 1 1/2" Thick Incl.—.17 to .24 Carbon

Over 1½" to 2" Thick Incl.—.17 to .24 Carbon Killed Steel

Over 2" Thick—.20 to .30 Carbon Killed Steel

STOCK LENGTHS

STOCK LENGTHS
¾" Thick and Lighter—8', 10', 12', 20', 30' and 40'

Over $\frac{3}{4}$ " Thick—Random 10' to 40'

Size in Inches	Weight per Foot Lbs.	Size in Inches	Weight per Foot Lbs.
$\frac{3}{16} \times 30$ to 72 See H.R. Sheets (Page 87)		$\frac{1}{2} \times 48$	81.60
84	53.55	54	91.80
96	61.20	60	102.00
$\frac{1}{4} \times 30$	25.50	72	122.40
36	30.60	84	142.80
42	35.70	96	163.20
48	40.80	120	204.00
54	45.90	$\frac{3}{16} \times 30$	57.38
60	51.00	36	68.85
72	61.20	42	80.33
84	71.40	48	91.80
96	81.60	60	114.75
120	102.00	72	137.70
$\frac{5}{16} \times 30$	31.88	84	160.70
36	38.25	96	183.60
42	44.63	$\frac{3}{8} \times 30$	63.75
48	51.00	36	76.50
54	57.38	42	89.25
60	63.75	48	102.00
72	76.50	60	127.50
84	89.25	72	153.00
96	102.00	84	178.56
120	127.50	96	204.00
$\frac{3}{8} \times 30$	38.25	$\frac{1}{4} \times 30$	76.50
36	45.90	36	91.80
42	53.55	42	107.10
48	61.20	48	122.40
54	68.85	60	153.00
60	76.50	72	183.60
72	91.80	84	214.20
84	107.10	96	244.80
96	122.40	$\frac{7}{8} \times 48$	142.80
120	153.00	60	178.50
$\frac{7}{16} \times 30$	44.63	72	214.20
36	53.55	84	249.90
42	62.48	96	285.60
48	71.40	1×48	163.20
54	80.33	60	204.00
60	89.25	72	244.80
72	107.10	84	285.60
84	124.95	96	326.40
96	142.80	$1\frac{1}{8} \times 48$	183.60
120	178.50	72	275.40
$\frac{1}{2} \times 30$	51.00	84	321.30
36	61.20	96	367.20
42	71.40		

(Continued on following page)

SHEARED PLATES



Open Hearth Steel



3/16" to 1 1/2" Thick Incl.—.17 to .24 Carbon

Over 1 1/2" to 2" Thick Incl.—.17 to .24 Carbon Killed Steel

Over 2" Thick—.20 to .30 Carbon Killed Steel

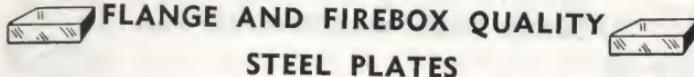
STOCK LENGTHS

Over 3/4" Thick—Random 10' to 40'

(Continued from preceding page)

	Size in Inches	Weight per Ft. Lbs.		Size in Inches	Weight per Ft. Lbs.
3/32				3 1/2 x 84	999.60
5/32	1 1/4 x 72	306.00		96	1142.40
	84	357.00		3 3/4 x 72	918.00
	96	408.00		84	1071.00
3/16	1 3/8 x 48	224.40		96	1224.00
7/32	72	336.60		4 x 48	652.80
	84	392.70		72	979.20
	96	448.80		84	1142.40
9/32	1 1/2 x 48	244.80		96	1305.60
	72	367.20		4 1/4 x 84	1213.80
	84	428.40		4 1/2 x 48	734.40
	96	489.60		72	1101.60
5/16	1 5/8 x 48	265.20		84	1285.20
	72	397.80		96	1468.80
	84	464.10		4 3/4 x 84	1356.60
	96	530.40		5 x 48	816.00
11/32	1 3/4 x 48	285.60		72	1224.00
	72	428.40		84	1428.00
	84	499.80		96	1632.00
	96	571.20		5 1/2 x 72	1346.40
13/32	1 7/8 x 84	535.50		84	1570.80
	2 x 48	326.40		96	1795.20
7/16	72	489.60		6 x 48	979.20
	84	571.20		72	1468.80
	96	652.80		84	1713.60
15/32	2 1/4 x 48	367.20		96	1958.40
	72	550.80		6 1/2 x 72	1591.20
	84	642.60		84	1856.40
	96	734.30		96	2121.60
1/2	2 1/2 x 48	408.00		7 x 60	1428.00
	72	612.00		72	1713.60
	84	714.00		84	1999.20
	96	816.00		96	2284.80
DETROIT 12	2 3/4 x 48	448.80		7 1/2 x 72	1836.00
Twinbroc	72	673.20		84	2142.00
Mail Box 148	84	785.40		96	2448.00
13400 Mt. E	96	897.60		8 x 60	1632.00
	3 x 48	489.60		72	1958.00
	72	734.40		84	2284.80
	84	856.80		96	2611.20
	96	979.00		9 x 60	1836.00
	3 1/4 x 72	795.60		72	2937.60
	84	928.20		84	
	96	1060.80		96	
	3 1/2 x 48	571.20		10 x 60	2040.00
	72	856.80		86	2924.00
				12 x 72	2937.60

DETROIT 12
Twinbroc
Mail Box 148
13400 Mt. E



FLANGE AND FIREBOX QUALITY STEEL PLATES

These plates meet the requirements of the A.S.M.E.—S.A. 285—Grade C
Hartford Steam Boiler Inspection and Insurance Co.

Tensile Strength 55000 to 65000 Lbs.

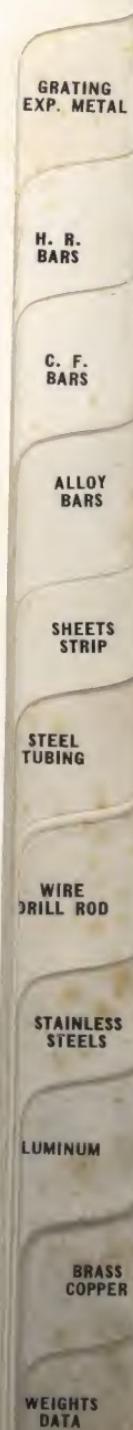
A.S.T.M. A-285-56T—Grade C

STOCK LENGTHS

$\frac{3}{4}$ " Thick and Lighter—8', 10', 12', 20', 30' and 40'
Over $\frac{3}{4}$ " Thick—Random 10' to 40'

Size in Inches	Weight per Foot		Size in Inches	Weight per Foot	
	Flange	Firebox		Flange	Firebox
$\frac{1}{4} \times 48$	40.80	...	$\frac{5}{8} \times 48$	102.00	...
60	51.00	51.00	60	127.50	...
72	61.20	...	72	153.00	153.00
84	71.40	71.40	84	178.50	178.50
96	81.60	81.60	96	204.00	204.00
120	102.00	102.00	120	...	255.00
$\frac{5}{16} \times 48$	51.00	...	$\frac{3}{4} \times 48$	122.40	...
60	63.75	63.75	60	153.00	...
72	76.50	...	72	183.60	...
84	89.25	89.25	84	214.20	214.20
96	102.00	102.00	96	244.80	244.80
120	127.50	127.50	120	...	306.00
$\frac{3}{8} \times 48$	61.20	...	$\frac{7}{8} \times 60$	178.50	...
60	76.50	76.50	72	214.20	214.20
72	91.80	91.80	84	249.90	...
84	107.10	107.10	120	...	357.00
96	122.40	122.40			
120	153.00	153.00	1×60	204.00	...
$\frac{7}{16} \times 72$	107.10	...	72	244.80	244.80
84	124.95	124.95	84	285.60	...
96	142.80	142.80	96	326.40	...
120	178.50	178.50	120	...	408.00
$\frac{1}{2} \times 48$	81.60	...	$1\frac{1}{8} \times 72$	275.40	...
60	102.00	102.00	84	321.30	...
72	122.40	122.40	$1\frac{1}{4} \times 72$	306.00	...
84	142.80	142.80	84	357.00	...
96	163.20	163.20	$1\frac{1}{2} \times 72$	367.20	...
120	204.00	204.00	84	428.40	...
$\frac{9}{16} \times 84$	...	160.70	$1\frac{3}{4} \times 72$	428.40	...
96	...	183.60	84	499.80	...

Note: Flange and Firebox steel plate can be furnished in all Standard Universal Mill widths on a net weight basis.



SPECIAL FREE MACHINING PLATES



Free Machining Plates can be machined faster than ordinary tank steel or ASTM-A-7 plate and produce a smooth, bright finish with little tendency toward tearing. Less time is required for polishing. Recommended where machinability, case hardening and uniformity are desired. A low carbon, high manganese, high sulphur steel, silicon killed, easily welded with proper technique.

In addition to sizes listed below; we will furnish the following widths net weight with cutting charge: $\frac{3}{8}$ to $\frac{3}{4}$ " Thick—36", 48", 60", 72"

STOCK LENGTHS

$\frac{3}{4}$ " Thick and Lighter—8', 10', 12', 20', 30' 40'.

Over $\frac{3}{4}$ " Thick—Random 10' to 40'

5/32

3/16

7/32

9/32

5/16

11/32

13/32

7/16

15/32

1/2

DETROIT 12

Twinbro

Mail Box 148

13400 Mt. I

Size in Inches	Weight per Foot Lbs.	Size in Inches	Weight per Foot Lbs.
$\frac{1}{4}$ x 84	71.40	2 x 84	571.20
$\frac{5}{16}$ x 84	89.25	2\frac{1}{4} x 84	642.60
$\frac{3}{8}$ x 84	107.10	2\frac{1}{2} x 84	714.00
$\frac{7}{16}$ x 84	125.00	2\frac{3}{4} x 84	785.40
$\frac{1}{2}$ x 84	142.80	3 x 84	856.80
$\frac{9}{16}$ x 84	160.70	3\frac{1}{4} x 84	928.20
$\frac{5}{8}$ x 84	178.50	3\frac{1}{2} x 84	999.60
$1\frac{1}{16}$ x 84	196.40	3\frac{3}{4} x 84	1071.00
$\frac{7}{8}$ x 84	214.20	4 x 84	1142.40
$1\frac{3}{16}$ x 84	232.10	4\frac{1}{4} x 84	1213.80
$\frac{7}{8}$ x 84	249.90	4\frac{1}{2} x 84	1284.20
1 x 84	285.60	4\frac{3}{4} x 84	1356.60
$1\frac{1}{8}$ x 84	321.30	5 x 84	1428.00
$1\frac{1}{4}$ x 84	357.00	5\frac{1}{2} x 84	1570.80
$1\frac{1}{8}$ x 84	392.70	6 x 84	1712.60
$1\frac{1}{2}$ x 84	428.40	7 x 84	1999.20
$1\frac{1}{8}$ x 84	464.10	8 x 84	2284.80
$1\frac{3}{8}$ x 84	499.80		

FREE MACHINING LEADED STEEL PLATES

A hot rolled steel plate which due to the addition of a small amount of lead gives superior machinability with excellent finish. These plates are easily welded, however adequate ventilation is recommended.

In addition to the sizes listed below we will furnish the following widths net weight with cutting charge: $\frac{3}{8}$ to $\frac{3}{4}$ " Thick—36", 48", 60", 72".

STOCK LENGTHS

$\frac{3}{4}$ " Thick and Lighter—8', 10', 12', 20', 30' and 40'.

Over $\frac{3}{4}$ " Thick—Random 10' to 40'

Size in Inches	Weight per Foot Lbs.	Size in Inches	Weight per Foot Lbs.
$\frac{3}{8}$ x 84	107.10	1\frac{1}{2} x 84	428.40
$\frac{1}{2}$ x 84	142.80	1\frac{1}{8} x 84	464.10
$\frac{5}{8}$ x 84	178.50	1\frac{3}{4} x 84	499.80
$\frac{7}{8}$ x 84	214.20	2 x 84	571.20
1 x 84	249.90	2\frac{1}{4} x 84	642.60
$1\frac{1}{8}$ x 84	285.60	2\frac{1}{2} x 84	714.00
$1\frac{1}{4}$ x 84	321.30	2\frac{3}{4} x 84	785.40
$1\frac{1}{8}$ x 84	357.00	3 x 84	856.80
$1\frac{3}{8}$ x 84	392.70		

Note: Free Machining steel plates can be furnished in all Standard Universal Mill widths on a Net Weight Basis.


HIGH CARBON STEEL PLATES


.40 to .50 CARBON KILLED STEEL

In addition to sizes listed below we will furnish the following widths net weight: $\frac{3}{8}$ " to $\frac{3}{4}$ " thick—30", 36", 42", 48", 54", 60", 72".
 $\frac{1}{8}$ " and 1" thick—60", 72".

STOCK LENGTHS

1/2" Thick and Lighter—8', 10', 12', 20', 30'.

Over 3/4" Thick—Random 10' to 40'.

Size in Inches	Weight per Foot Lbs.	Size in Inches	Weight per Foot Lbs.
$\frac{3}{16} \times 24$ to 60	See Sheets	2 x 84	571.20
$\frac{1}{4} \times 84$	71.40	2\frac{1}{4} x 84	642.60
$\frac{5}{16} \times 84$	89.25	2\frac{1}{2} x 84	714.00
$\frac{3}{8} \times 84$	107.10	2\frac{3}{4} x 84	785.40
$\frac{7}{16} \times 84$	125.00	3 x 84	856.80
$\frac{1}{2} \times 84$	142.80	3\frac{1}{4} x 84	928.20
$\frac{5}{8} \times 84$	178.50	3\frac{1}{2} x 84	999.60
$\frac{3}{4} \times 84$	214.20	3\frac{3}{4} x 84	1071.00
$\frac{7}{8} \times 84$	249.90	4 x 84	1142.40
1 x 84	285.60	4\frac{1}{2} x 84	1285.20
$1\frac{1}{8} \times 84$	321.30	5 x 84	1428.00
$1\frac{1}{4} \times 84$	357.00	5\frac{1}{2} x 84	1570.80
$1\frac{3}{8} \times 84$	392.70	6 x 84	1713.60
$1\frac{1}{2} \times 84$	428.40	7 x 84	1999.20
$1\frac{5}{8} \times 84$	464.10	8 x 84	2284.80
$1\frac{3}{4} \times 84$	499.80		

Note: High Carbon Steel Plates can be furnished in all Standard Universal Mill widths on a net weight basis.


**.40 to .50 CARBON
FREE MACHINING PLATE**


A medium carbon, high manganese plate which is silicon killed to assure excellent internal soundness and uniformity. The chemical content is balanced to permit high surface hardness by flame or induction hardening and better response to standard quench and temper heat treatments than is possible with SAE 1045 steel. The free machining characteristics of this plate allow the user to employ speeds and feeds up to 85% of those recommended for B1112 and obtain a uniformly smooth finish. See page 295 for chemistry.

STOCK LENGTHS

1/2" Thick and Lighter—8', 10', 12', 20', 30'.

Over 1/2" Thick—Random 10' to 30'.

Size in Inches	Weight Per Foot Lbs.	Size in Inches	Weight Per Foot Lbs.
$\frac{5}{8} \times 96$	122.40	2\frac{3}{4} \times 96	897.60
$\frac{1}{2} \times 96$	163.20	3 x 96	979.00
$\frac{9}{16} \times 96$	183.60	3\frac{1}{4} \times 96	1060.80
$\frac{3}{8} \times 96$	204.00	3\frac{1}{2} \times 96	1142.40
$\frac{7}{16} \times 96$	244.80	3\frac{3}{4} \times 96	1224.00
$\frac{1}{2} \times 96$	285.60	4 x 96	1305.60
1 x 96	326.40	4\frac{1}{4} \times 96	1213.80
$1\frac{1}{8} \times 96$	367.20	4\frac{1}{2} \times 96	1285.20
$1\frac{1}{4} \times 96$	408.00	4\frac{3}{4} \times 96	1356.60
$1\frac{3}{8} \times 96$	448.80	5 x 96	1020.00
$1\frac{1}{2} \times 96$	489.60	5\frac{1}{4} \times 96	1071.00
$1\frac{3}{4} \times 96$	571.20	5\frac{1}{2} \times 96	1122.00
2 x 96	652.80	5\frac{3}{4} \times 96	1173.00
2\frac{1}{4} x 96	734.30	6 x 96	1224.00
2\frac{1}{2} x 96	816.00		

These plates are sold on a net weight basis.

GRATING
EXP. METALH. R.
BARSC. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



ABRASION RESISTING STEEL PLATES AND SHEETS



An intermediate carbon-manganese steel designed for parts subject to abrasive wear such as scraper blades, grain and feed mill liners, concrete mixers, hammer mills, coal chutes, road machinery and sand and gravel handling equipment.

ABRASION RESISTING PLATES

5/32

1

3/16

7/32

1

9/32

1

5/16

11/32

1

13/32

1

7/16

15/32

Stock Lengths

1/2" Thick and Lighter—8', 10', 12', 20', 30' and 40'

Over 1/2" Thick—Random 10' to 30'

Size in Inches	Weight per Foot Lbs.	Size in Inches	Weight per Foot Lbs.
1/4 x 48	40.80	1/2 x 72	122.40
60	51.00	84	142.80
72	61.20	5/8 x 72	153.00
84	71.40	84	178.50
5/16 x 72	76.50	3/4 x 60	153.00
84	89.25	72	183.60
3/8 x 72	91.80	84	214.20
84	107.10	1 x 84	285.60
		1 1/4 x 84	357.00

Note: Abrasion Resisting Steel Plate can be furnished in all Standard Universal Mill widths on a net weight basis.

ABRASION RESISTING SHEETS

OIT 12,
Twinbrook
Box 148 H
400 Mt. Ell

Gage & Size in Inches	Weight per Sheet	Gage & Size in Inches	Weight per Sheet
No. 7 (3/16") 7.50 lbs. per Sq. Ft.		No. 10 (.1345") 5.625 lbs. per Sq. Ft.	
48 x 240	600.00	48 x 120	225.00
60 x 240	750.00		
72 x 240	900.00		

COR-TEN STEEL PLATES AND SHEETS

SAE 950

A low alloy steel with greater tensile strength and about 50% higher yield strength than mild steel with much higher corrosion resistance than ordinary mild steel. Requires more power for shearing, punching, blanking and forming. More spring back may be expected in forming operations due to the higher tensile properties. Weldability, the same as mild steel with gas and electric welding.

Physical Properties and Chemistry, see page 295.
Identification color—Peach.

COR-TEN PLATES

Size in Inches	Weight per Foot Lbs.	Size in Inches	Weight per Foot Lbs.
$\frac{3}{16}$ x 48 See Corten Sheets		$\frac{5}{16}$ x 84	89.25
60	38.25	96	102.00
72	45.90	$\frac{3}{8}$ x 48	61.20
84	53.55	60	76.50
96	61.20	72	91.80
$\frac{1}{4}$ x 48	40.80	84	107.10
60	51.00	96	122.40
72	61.20	$\frac{1}{2}$ x 48	81.60
84	71.40	60	102.00
96	81.60	72	122.40
$\frac{5}{16}$ x 48	51.00	84	142.80
60	63.75	96	163.20
72	76.50		

Note: Cor-Ten plates are furnished in all Standard Universal Mill and standard sheared widths on a net weight basis.

COR-TEN SHEETS

Gage & Size in Inches	Weight per Sheet	Gage & Size in Inches	Weight per Sheet
No. 7 (.1793") 7.50 #	Sq. Ft.	No. 12 (.1046") 4.375 #	Sq. Ft.
48 x 120	300.0	60 x 120	218.8
48 x 192	480.0	60 x 144	262.5
48 x 240	600.0	60 x 192	350.0
No. 8 (.1644") 6.875 #	Sq. Ft.	No. 14 (.0747") 3.125 #	Sq. Ft.
48 x 144	333.0	36 x 120	93.8
72 x 192	660.0	36 x 144	112.5
No. 10 (.1345") 5.625 #	Sq. Ft.	42 x 144	131.3
36 x 120	168.8	48 x 120	125.0
48 x 120	225.0	48 x 144	150.0
48 x 144	270.0	48 x 192	200.0
48 x 192	360.0	60 x 120	156.3
60 x 96	225.0	60 x 144	187.5
60 x 120	281.3		
60 x 144	337.5	*No. 16 (.0598") 2.5 #	Sq. Ft.
60 x 192	450.0	36 x 144	90.0
60 x 240	562.6	48 x 120	100.0
No. 11 (.1196") 5.00 #	Sq. Ft.	48 x 144	120.0
48 x 120	200.0	48 x 192	160.0
48 x 144	240.0	60 x 120	125.0
48 x 192	320.0	60 x 144	150.0
60 x 120	250.0		
60 x 192	400.0	*No. 18 (.0478") 2.0 #	Sq. Ft.
72 x 192	480.0	36 x 120	60.0
No. 12 (.1046") 4.375 #	Sq. Ft.	36 x 144	72.0
36 x 120	131.3	48 x 120	80.0
42 x 144	183.8	48 x 144	96.0
48 x 120	175.0	*No. 20 (.0359") 1.50 #	Sq. Ft.
48 x 144	210.0	48 x 96	48.0
48 x 192	280.0	48 x 144	72.0

* Cold Rolled Only—Balance of sizes are Hot Rolled.

GRATING
EXP. METAL

H. R.
BARS

C. F.
BARS

ALLOY
BARS

SHEETS
STRIP

STEEL
TUBING

WIRE
DRILL ROD

STAINLESS
STEELS

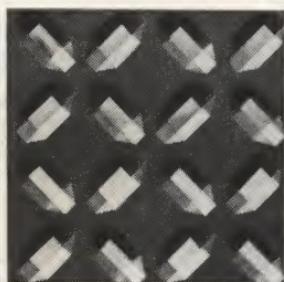
LUMINUM

BRASS
COPPER

WEIGHTS
DATA

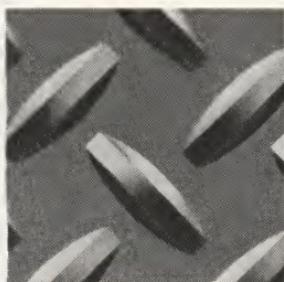
STEEL FLOOR PLATE

MULTIGRIP



STANDARD PATTERN

FOUR WAY



MEDIUM PATTERN

FLOOR PLATE MULTIGRIP

STANDARD PATTERN

Stock Lengths $\frac{1}{8}$ " Thick 8, 10, 12, 20 Ft.3/16" to $\frac{1}{2}$ " thick Incl. 8, 10, 12, 20, 30, 40 Ft.

Size in Inches	Weight per Ft. Lbs.	Size in Inches	Weight per Ft. Lbs.
$\frac{1}{8}$ (6.15 lbs. per Sq. Ft.)		$\frac{5}{16}$ (13.80 lbs. per Sq. Ft.)	
36	18.45	30	34.50
48	24.60	36	41.40
60	30.75	42	48.30
$\frac{3}{16}$ (8.70 lbs. per Sq. Ft.)		48	55.20
30	21.75	54	62.10
36	26.10	60	69.00
42	30.45	72	82.80
48	34.80	$\frac{1}{4}$ (16.35 lbs. per Sq. Ft.)	
54	39.15	30	40.88
60	43.50	36	49.05
72	52.20	42	57.23
$\frac{1}{4}$ (11.25 lbs. per Sq. Ft.)		48	65.40
30	28.13	60	81.75
36	33.75	72	98.10
42	39.38	$\frac{1}{2}$ (21.45 lbs. per Sq. Ft.)	
48	45.00	30	53.63
54	50.62	36	64.35
60	56.25	42	75.08
72	67.50	48	85.80
		60	107.25
		72	128.70

Thickness is measured exclusive of projections.

FLOOR PLATE FOUR WAY

MEDIUM PATTERN

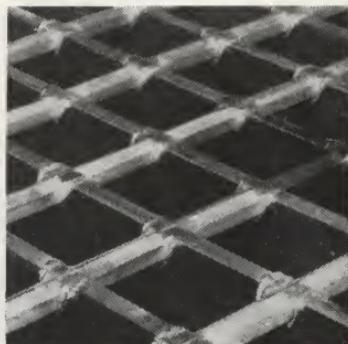
Size in Inches	Weight per Ft. Lbs.	Stock Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Stock Lengths Feet
*18 Ga. (2.40 lbs. per Sq. Ft.)			14 Ga. (3.75 lbs. per Sq. Ft.)		
42	8.40	12	36	11.25	8, 10, 12
48			48	15.00	8, 10, 12
16 Ga. (3.00 lbs. per Sq. Ft.)			12 Ga. (5.25 lbs. per Sq. Ft.)		
36	9.00	8, 10, 12	36	15.75	8, 10, 12, 20
48	12.00	8, 10, 12, 16	48	21.00	8, 10, 12, 20
			60	26.25	10, 12, 20

*18 Ga. is Small Pattern

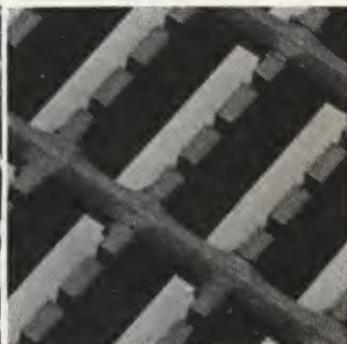
Thickness is measured exclusive of projections.

DETROIT 1
Twinbi
Mail Box 14
13400 Mt.

OPEN STEEL FLOOR GRATING TWO SURFACES



Smooth-surface grating



Serrated-surface safety grating

GRATING EXP. METAL

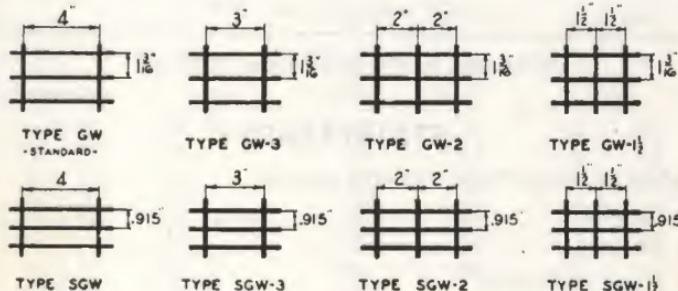
H. R.
BARSC. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

TYPES

"Type" designation tells distance between bearing bars. (Bearing bars are the heavy load-carrying beams.)



CODE NUMBERS & WEIGHTS

Type (Standard)	Wt. (Per Sq. Ft.)	Type	Wt. (Per Sq. Ft.)	Size of Bars
GW-75-A	3.9	SGW-75-A	4.9	MAIN BAR $\frac{3}{4}$ " x $\frac{1}{8}$ " CROSS BAR $\frac{1}{4}$ " HEX.
GW-75	6.3	SGW-75	7.9	MAIN BAR $\frac{3}{4}$ " x $\frac{3}{16}$ " CROSS BAR $\frac{5}{16}$ " HEX.
GW-100-A	5.0	SGW-100-A	6.3	MAIN BAR 1" x $\frac{1}{8}$ " CROSS BAR $\frac{1}{4}$ " HEX.
GW-100	8.1	SGW-100	10.2	MAIN BAR 1" x $\frac{3}{16}$ " CROSS BAR $\frac{5}{16}$ " HEX.
GW-125-A	6.1	SGW-125-A	7.7	MAIN BAR $1\frac{1}{4}$ " x $\frac{1}{8}$ " CROSS BAR $\frac{1}{4}$ " HEX.
GW-125	9.9	SGW-125	12.5	MAIN BAR $1\frac{1}{4}$ " x $\frac{3}{16}$ " CROSS BAR $\frac{5}{16}$ " HEX.
GW-150-A	7.3	SGW-150-A	9.2	MAIN BAR $1\frac{1}{2}$ " x $\frac{1}{8}$ " CROSS BAR $\frac{5}{16}$ " HEX.
GW-150	11.7	SGW-150	14.9	MAIN BAR $1\frac{1}{2}$ " x $\frac{3}{16}$ " CROSS BAR $\frac{5}{16}$ " HEX.
GW-175	13.5	SGW-175	17.2	MAIN BAR $1\frac{3}{4}$ " x $\frac{3}{16}$ " CROSS BAR $\frac{5}{16}$ " HEX.
GW-200	15.3	SGW-200	19.5	MAIN BAR 2" x $\frac{3}{16}$ " CROSS BAR $\frac{5}{16}$ " HEX.
GW-225	17.2	SGW-225	21.8	MAIN BAR $2\frac{1}{4}$ " x $\frac{3}{16}$ " CROSS BAR $\frac{5}{16}$ " HEX.

(Continued on following page)

OPEN STEEL FLOOR GRATING

(Continued from preceding page)

When ordering GRATING, specify:

1. Type
2. Size of bars
3. Span (direction of bearing bars)
4. Dimensions of area
5. Painted or Galvanized

TABLES OF PANEL WIDTHS

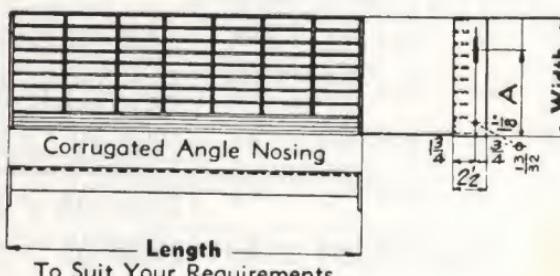
TYPE GW	$8\frac{1}{2}''$	$9\frac{11}{16}''$	$10\frac{7}{8}''$	$12\frac{1}{16}''$	$13\frac{1}{4}''$	$14\frac{7}{16}''$	$15\frac{5}{8}''$	$16\frac{7}{8}''$
NO. OF BARS	8	9	10	11	12	13	14	15
TYPE SGW	$6\frac{5}{8}''$	$7\frac{1}{2}''$	$8\frac{7}{16}''$	$9\frac{3}{8}''$	$10\frac{1}{4}''$	$11\frac{3}{16}''$	$12\frac{1}{8}''$	$13''$
TYPE GW	$18\frac{1}{16}''$	$19\frac{1}{4}''$	$20\frac{7}{16}''$	$21\frac{1}{8}''$	$22\frac{13}{16}''$	$24''$	$25\frac{5}{16}''$	$26\frac{3}{8}''$
NO. OF BARS	16	17	18	19	20	21	22	23
TYPE SGW	$13\frac{15}{16}''$	$14\frac{13}{16}''$	$15\frac{3}{4}''$	$16\frac{11}{16}''$	$17\frac{9}{16}''$	$18\frac{1}{2}''$	$19\frac{7}{16}''$	$20\frac{5}{16}''$
TYPE GW	$27\frac{7}{16}''$	$28\frac{3}{4}''$	$29\frac{15}{16}''$	$31\frac{1}{8}''$	$32\frac{5}{16}''$	$33\frac{1}{2}''$	$34\frac{11}{16}''$	$35\frac{3}{8}''$
NO. OF BARS	24	25	26	27	28	29	30	31
TYPE SGW	$21\frac{1}{4}''$	$22\frac{3}{16}''$	$23\frac{1}{16}''$	$24''$				

Maximum length for all types is 36'-0".

STAIRTREADS

When ordering STAIR TREADS, specify:

1. Width
2. Length
3. Type of Grating
4. Type of Nosing
5. Punching in side plates of standardized dimensions may be altered to suit special conditions.



WELDED SERIES

TYPE GW STANDARD		TYPE SGW	
Width	Dim. "A"	Width	Dim. "A"
$6\frac{1}{16}''$	$2\frac{1}{2}''$	$6\frac{1}{8}''$	$4\frac{1}{2}''$
$7\frac{3}{8}''$	$4\frac{1}{2}''$	$7\frac{1}{8}''$	$4\frac{1}{2}''$
$8\frac{1}{8}''$	$4\frac{1}{2}''$	$8\frac{3}{4}''$	$4\frac{1}{2}''$
$9\frac{3}{4}''$	$7''$	$9\frac{1}{16}''$	$7''$
$10\frac{1}{16}''$	$7''$	$10\frac{5}{8}''$	$7''$
$12\frac{1}{8}''$	$7''$	$11\frac{1}{2}''$	$7''$

ROIT 12

Twinbro
il Box 148

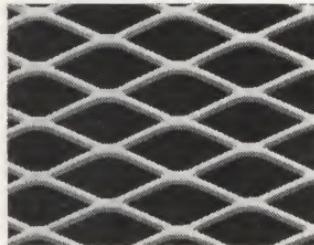
13400 Mt.

EXPANDED METAL

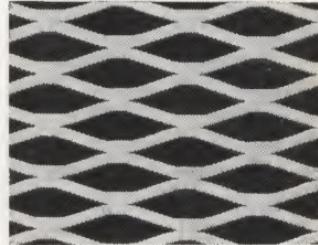
Expanded Metal may be used for many industrial purposes such as open partitions, window guards, machine guards and other manufacturing and maintenance uses.

It is more rigid than an equal weight of solid steel plate or wire mesh. In fabricating it may be cut to any desired shape without loss of its original strength. Expanded metal has no sharp edges.

NOT FLATTENED



FLATTENED



H. R.
BARS

C. F.
BARS

ALLOY
BARS

SHEETS
STRIP

STEEL
TUBING

WIRE
DRILL ROD

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

EXPANDED STEEL MESH NOT FLATTENED

Carbon and Stainless Steels

Style Designation	Width in Inches	Length in Inches	Weight per Sq. Ft.	Approx. Size of Opening in Inches
$\frac{1}{4} \times 20$	36, 48	96	.86	$1\frac{1}{64} \times 2\frac{3}{32}$
$\frac{1}{4} \times 18$	48	96	1.14	$1\frac{11}{16} \times 2\frac{3}{32}$
$\frac{1}{2} \times 40$	48	96	.40	$1\frac{3}{32} \times 1\frac{5}{16}$
$\frac{1}{2} \times 20$	48	96	.43	$7/16 \times 1\frac{5}{16}$
$\frac{1}{2} \times 18$	36, 48, 72	96	.70	$7/16 \times 1\frac{5}{16}$
	72	104	.70	$7/16 \times 1\frac{5}{16}$
$\frac{1}{2} \times 16$	48, 72	96	.86	$3/8 \times 1\frac{5}{16}$
$\frac{1}{2} \times 13$	48, 72, 78	96	1.47	$5/16 \times 1\frac{5}{16}$
$\frac{3}{4} \times 16$	48, 72	96	.54	$1\frac{3}{16} \times 1\frac{3}{4}$
$\frac{3}{4} \times 13$	48, 72	96	.80	$3/4 \times 1\frac{11}{16}$
	48	120	.80	$3/4 \times 1\frac{11}{16}$
$\frac{3}{4} \times 10$	48	96	1.20	$3/4 \times 1\frac{5}{8}$
$\frac{3}{4} \times 9$	48	96	1.80	$1\frac{1}{16} \times 1\frac{9}{16}$
	48	120	1.80	$1\frac{1}{16} \times 1\frac{9}{16}$
$1\frac{1}{2} \times 16$	48	96	.40	$1\frac{1}{4} \times 2\frac{5}{8}$
$1\frac{1}{2} \times 13$	48, 72	96	.60	$1\frac{3}{16} \times 2\frac{1}{2}$
	72	120	.60	$1\frac{3}{16} \times 2\frac{1}{2}$
$1\frac{1}{2} \times 10$	48, 72	96	.79	$1\frac{3}{16} \times 2\frac{1}{2}$
$1\frac{1}{2} \times 9$	72	96	1.20	$1\frac{1}{8} \times 2\frac{5}{8}$
	72	120	1.20	$1\frac{1}{8} \times 2\frac{5}{8}$

The first number represents the nominal width of diamond in inches and the second number represents the approximate gauge of sheet or plate before expanding, except that No. 10 is expanded from approximately No. 13 gauge. Sheets of special size can be furnished.

EXPANDED METAL WALKWAY AND SKYWALK

3LB, 4LB and 6.25LB GRATINGS

WALKWAY, SKYWALK AND GRATINGS NOT FLATTENED

Style Designation	Width in Inches	Length in Inches	Weight per Sq. Ft.	Approx. Size of Opening in Inches
Walkway	48, 72	96	4.29	$1 \times 2\frac{7}{8}$
Skywalk	48	120	3.14	$1\frac{5}{8} \times 4\frac{7}{8}$
3.0 Lb. Grating	36, 72	96	3.00	$1\frac{5}{16} \times 3\frac{7}{16}$
4.0 Lb. Grating	48, 60, 72	96	4.00	$1\frac{5}{16} \times 3\frac{7}{16}$
6.25 Lb. Grating	48, 72	96	6.25	$1\frac{3}{16} \times 3\frac{3}{8}$

EXPANDED STEEL MESH FLATTENED

Carbon and Stainless Steels

Style Designation	Width in Inches	Length in Inches	Weight per Sq. Ft.	Approx. Size of Opening in Inches
1/4 x 20-22	36, 48	96	.83	3/32 x 11/16
1/4 x 18-20	48	96	1.11	3/32 x 11/16
1/2 x 40	48	96	.38	3/8 x 1
1/2 x 20-22	36, 48	96	.40	3/8 x 1
1/2 x 18-20	36, 48	96	.66	9/32 x 1
1/2 x 16-18	36, 48	96	.82	1/4 x 1
1/2 x 13-15	36, 48	96	1.40	1/4 x 1
3/4 x 34	48	96	.32	23/32 x 1 3/4
3/4 x 16-18	36, 48	96	.51	3/4 x 1 3/4
3/4 x 14-16	36, 48	96	.60	11/16 x 1 13/16
3/4 x 13-15	36, 48	96	.75	11/16 x 1 25/32
3/4 x 9-11	36, 48	96	1.71	9/16 x 1 11/16
1 1/2 x 16-18	36, 48	96	.38	1 1/16 x 2 3/4
1 1/2 x 14-16	36, 48	96	.46	1 1/16 x 2 3/4
1 1/2 x 13-15	36, 48	96	.57	1 1/16 x 2 3/4
1 1/2 x 9-11	36, 48	96	1.14	1 x 2 9/16

The first number represents the nominal width of diamond in inches; the second number represents the approximate original gauge before flattening and the third number represents the approximate gauge thickness after flattening.

SPECIAL SIZES—Rectangular or square sheets cut from standard stock sheets are charged for on basis of total area of stock sheets necessary to fill order plus \$10.00 per 100 pieces for cutting.

EXPANDED ALUMINUM NOT FLATTENED

Size Inches	Width Inches	Length Inches	Approx. Size of Opening in Inches	Approx. Wt. Per Sq. Ft.
1/2" — .051	36, 48	96	.375 x .950	.27
1/2" — .081	36, 48	96	.375 x .890	.44
3/4" — .051	36, 48	96	.700 x 1.64	.17
3/4" — .081 Light	36, 48	96	.700 x 1.64	.32
3/4" — .081 Heavy	36, 48	96	.734 x 1.64	.41
3/4" — .125	36, 48	96	.675 x 1.563	.65
1 1/2" — .081	36, 48	96	1.200 x 2.688	.22
1 1/2" — .125	36, 48	96	1.140 x 2.531	.43

EXPANDED ALUMINUM FLATTENED

Size Inches	Width Inches	Length Inches	Approx. Size of Opening in Inches	Approx. Wt. Per Sq. Ft.
1/2" — .051	36, 48	96	.328 x 1.0	.27
1/2" — .081	36, 48	96	.297 x 1.0	.44
3/4" — .051	36, 48	96	.625 x 1.75	.17
3/4" — .081 Light	36, 48	96	.635 x 1.75	.32
3/4" — .081 Heavy	36, 48	96	.547 x 1.75	.41
3/4" — .125	36, 48	96	.563 x 1.75	.65
1 1/2" — .081	36, 48	96	1.094 x 2.938	.22
1 1/2" — .125	36, 48	96	.938 x 2.75	.43

TROIT 12
Twinbroc
ail Box 148
13400 Mt. E

HOT ROLLED ROUNDS**AISI C1018 AISI C1045****SPECIAL QUALITY**

AISI C1018; Sizes 3" and Over—.15/.30 Silicon

AISI C1040-45; .15/.30 Silicon

Physical properties, pages 288-289. Chemical analysis, page 279.
 Identification colors C1018—Green; C1040-45—Yellow.

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet	
			C1018	C1040 C1045
3/8	.376	6.01	.	18
1/2	.668	10.68	16	18
9/16	.845	13.52	16	18
5/8	1.043	16.69	16	18
3/4	1.502	24.03	16	18
7/8	2.045	32.71	16	18
15/16	2.347	37.55	16	.
1	2.670	42.73	16	18
1 1/8	3.380	54.08	16	18
1 3/16	3.767	60.25	16	.
1 1/4	4.172	66.76	16	18
1 5/16	4.603	73.60	16	.
1 3/8	5.049	80.78	16	18
1 1/2	6.008	96.13	16	18
1 9/16	6.519	104.31	16	.
1 5/8	7.051	112.82	16	18
1 3/4	8.178	130.85	16	18
1 7/8	9.388	150.24	16	18
2	10.68	170.90	16	20
2 1/16	11.36	181.75	16	.
2 1/8	12.06	192.93	16	20
2 3/16	12.78	204.45	.	20
2 1/4	13.52	216.30	16	20
2 3/8	15.06	241.00	16	20
2 1/2	16.69	267.04	16	20
2 5/8	18.40	294.41	16	20
2 3/4	20.19	323.11	16	20
2 7/8	22.07	353.15	16	20
3	24.03	384.53	20	20
3 1/8	26.08	417.25	20	20
3 1/4	28.21	451.30	20	20
3 3/8	30.42	486.67	20	20
3 1/2	32.71	523.39	10, 20	10, 20
3 5/8	35.09	561.44	10, 20	10, 20
3 3/4	37.55	600.83	10, 20	10, 20
3 7/8	40.10	641.55	.	10, 20
4	42.73	683.62	10, 20	10, 20
4 1/8	45.44	727.01	10, 20	10, 20
4 1/4	48.23	771.73	10, 20	10, 20
4 3/8	51.11	817.79	10, 20	.
4 1/2	54.08	865.20	10, 20	10, 20
4 5/8	57.12	913.94	10, 20	10, 20
4 3/4	60.25	964.00	10, 20	10, 20
5	66.76	1068.14	10, 20	10, 20
5 1/4	73.60	1177.63	10, 20	10, 20
5 1/2	80.78	1292.45	10, 20	10, 20
5 3/4	88.29	1412.64	10, 20	.
6	96.13	1538.08	10, 20	10, 20
6 1/8	100.18	1602.88	10, 20	10, 20
6 1/4	104.31	1668.96	10, 20	10, 20
6 1/2	112.82	1805.12	10, 20	10, 20
6 3/4	121.67	1946.72	10, 20	10, 20

(Continued on following page)

H. R.
BARSC. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATASIC
VIRE
ING
IRE



HOT ROLLED ROUNDS



AISI C1018 AISI C1045

SPECIAL QUALITY

AISI C1018; Sizes 3" and Over—.15/.30 Silicon
AISI C1045; .15/.30 Silicon

Physical properties, pages 288-289. Chemical analysis, page 279.
Identification colors: C1018—Green; C1045—Yellow.

(Continued from preceding page)

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet	
			C1018	C1040 C1045
7	130.85	2093.60	10, 20	10, 20
7 1/4	140.36	2245.76	10, 20	10, 20
7 1/2	150.21	2403.36	10, 20	10, 20
7 3/4	160.39	2566.24	10, 20	10, 20
8	170.90	2734.40	10, 20	10, 20
8 1/4	181.75	2908.00	10, 20	10, 20
8 1/2	192.93	3086.88	10, 20	10, 20
8 3/4	204.45	3271.20	10, 20	10, 20
9	216.30	3460.80	10, 20	10, 20
9 1/2	241.00	3856.00	10, 20	10, 20

For Larger Sizes, See Forged Rounds, Page 35.



HOT ROLLED ROUNDS



M1020—Mild Steel

MERCHANT QUALITY

Chemical analysis, page 279.
Identification color: Red.

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet
3/16	.094	1.41	16
1/4	.167	2.67	16
5/16	.261	4.17	16
3/8	.376	6.01	16, 20, 36
7/16	.511	8.18	16, 20
1/2	.668	10.68	16, 20, 36
9/16	.845	13.52	16
5/8	1.043	16.69	16, 20, 36
11/16	1.262	20.20	16
3/4	1.502	24.03	16, 20, 36
13/16	1.763	28.21	16
7/8	2.045	32.71	16, 36
15/16	2.347	37.55	16
1	2.670	42.73	16, 20, 36
1 1/16	3.015	48.23	16
1 1/8	3.380	54.08	16, 20, 36
1 3/16	3.767	60.25	16
1 1/4	4.172	66.76	16, 20, 36
1 5/16	4.603	73.60	16
1 3/8	5.049	80.78	16, 20, 36
1 7/16	5.518	88.29	16
1 1/2	6.008	96.13	16, 20, 36
1 9/16	6.52	104.31	16
1 5/8	7.051	112.82	16, 36
1 3/4	8.178	130.85	16, 20, 36
1 7/8	9.388	150.24	16, 36
2	10.68	170.90	16, 20, 36
2 1/8	12.06	192.93	16, 20
2 1/4	13.52	216.30	16, 36
2 3/8	15.06	241.00	16
2 1/2	16.69	267.04	16, 20, 36
2 5/8	18.40	294.41	16
2 3/4	20.19	323.11	16, 36
2 7/8	22.07	353.15	16

DETROIT 12

Twinbro

Mail Box 148

13400 Mt.

HOT ROLLED ROUNDS**AISI C1018****FORGING QUALITY—15/.30 SILICON**

Chemical analysis, page 279.

Physical properties, page 288.

Identification color: Black.

Size in Inches	Weight per Ft. lbs.	Stock Lengths Feet	Size in Inches	Weight per Ft. lbs:	Stock Lengths Feet
1/2	.668	16	1 5/8	7.051	16
5/16	.845	16	1 3/4	8.178	16
5/8	1.043	16	1 7/8	9.388	16
3/4	1.502	16	2	10.068	16
7/8	2.045	16	2 1/8	12.06	16
1	2.670	16	2 1/4	13.52	16
1 1/8	3.380	16	2 3/8	15.06	16
1 1/4	4.172	16	2 1/2	16.69	16
1 3/8	5.049	16	2 5/8	18.40	16
1 1/2	6.008	16	2 3/4	20.19	16
			2 7/8	22.07	16

ROUNDS FORGED STEEL**AISI C1020****AISI C1045**

Chemical analysis, page 279.

Physical properties and heat treatment, pages 288-289.

Identification colors: C1020-SAE 1020—Green;
C1045-SAE 1045—Yellow.

Approx. Actual Forged Size	Suitable for Finishing to	Weight per Ft. lbs.	Stock Lengths Feet	C1020	C1045
6 3/4	6	121.7	20	..	
7 1/4	6 1/2	140.4	20	..	
7 1/2	6 3/4	150.2	20	..	
7 3/4	7	160.4	20	20	
8	7 1/4	170.9	20	..	
8 1/4	7 1/2	181.7	20	20	
8 1/2	7 3/4	192.9	20	..	
8 3/4	8	204.5	20	20	
9 1/4	8 1/2	228.5	20	20	
9 3/4	9	253.9	20	20	
10 1/4	9 1/2	280.6	20	20	
10 3/4	10	308.6	20	20	
11 1/4	10 1/2	337.9	20	20	
11 3/4	11	368.7	20	20	
12 3/4	12	435.2	20	20	

The above stock is forged about 3/4" oversize to allow for finishing.

C. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATAAL
ic
ML
04
05
06
07
08
09
10
11
12
13
14
15
16
17
18
20
22
24
26
28
31
33
35
37
39
41
43
45
47
49
51
55
059
063
067
071
075
080
085
090
095
100
106
112
118
124
USIC
WIRE
RING
WIRE

HOT ROLLED ROUNDS**AISI C1117 AISI C1141****AISI C1144****SPECIAL QUALITY**

Chemical analysis, page 278.

Physical properties and heat treatment, pages 288-289.

Identification colors: AISI—C1117 SAE—1117—Pink
 AISI—C1141 SAE—1141—Aluminum
 AISI—C1144 SAE—1144—Brown

Size in Inches	Weight per Ft. Lbs.	Stock Lengths Feet		
		C1117	C1141	C1144
3/8	.376	16	..	..
1/2	.668	16	18	18
5/8	1.043	16	18	18
3/4	1.502	16	18	18
13/16	1.763	..	18	..
7/8	2.045	16	18	18
1	2.670	16	18	18
1 1/8	3.380	16	18	18
1 3/16	3.766	..	18	..
1 1/4	4.172	16	18	18
1 3/8	5.049	16	18	18
1 1/2	6.008	16	18	18
1 5/8	7.051	16	18	18
1 3/4	8.178	16	18	18
1 7/8	9.388	16	18	18
2	10.68	16	18	18
2 1/8	12.06	16	18	..
2 1/4	13.52	16	18	18
2 3/8	15.06	16	18	18
2 1/2	16.69	16	18	18
2 5/8	18.40	16	18	18
2 3/4	20.19	16	18	18
2 7/8	22.07	16	18	18
3	24.03	20	20	20
3 1/8	26.08	20	20	20
3 1/4	28.21	20	20	20
3 3/8	30.42	20	20	20
3 1/2	32.71	10, 20	10, 20	10, 20
3 5/8	35.09	10, 20	10, 20	10, 20
3 3/4	37.55	10, 20	10, 20	10, 20
3 7/8	40.10	..	10, 20	10, 20
4	42.73	10, 20	10, 20	10, 20
4 1/8	45.44	..	10, 20	..
4 1/4	48.23	10, 20	10, 20	10, 20
4 3/8	51.11	10, 20	10, 20	..
4 1/2	54.08	10, 20	10, 20	10, 20
4 5/8	57.12	..	10, 20	..
4 3/4	60.25	10, 20	10, 20	10, 20
5	66.76	10, 20	10, 20	10, 20
5 1/4	73.60	10, 20	10, 20	10, 20
5 1/2	80.78	10, 20	10, 20	10, 20
5 3/4	88.29	10, 20	10, 20	10, 20
6	96.13	10, 20	10, 20	10, 20
6 1/4	104.31	10, 20	10, 20	10, 20
6 1/2	112.82	10, 20	10, 20	10, 20
6 3/4	121.67	10, 20	10, 20	10, 20
	130.85	10, 20	10, 20	10, 20
7 1/4	140.36	10, 20	10, 20	10, 20
7 1/2	150.21	10, 20	10, 20	10, 20
7 3/4	160.39	10, 20	10, 20	10, 20
8	170.90	10, 20	10, 20	10, 20
8 1/4	181.75	10, 20	..	10, 20
8 1/2	192.93	10, 20	..	10, 20
9	216.30	10, 20	..	10, 20
9 1/2	241.00	10, 20	..	10, 20

DETROIT 12
 Twinbro
 Mail Box 148
 13400 Mt.

HOT ROLLED SQUARES**M1020****MERCHANT QUALITY**

Chemical Analysis, page 279.

Physical properties, page 288.

Identification color: Red.

Size in Inches	Weight per Foot Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet
$\frac{1}{4}$	.213	3.41	16, 36	$1\frac{1}{8}$	4.306	68.85	16
$\frac{5}{16}$	.332	5.31	16	$1\frac{1}{4}$	5.316	85.01	16, 36
$\frac{3}{8}$	.478	7.65	16, 36	$1\frac{3}{8}$	6.432	102.85	16
$\frac{7}{16}$	.651	10.42	16	$1\frac{1}{2}$	7.655	122.40	16, 36
$\frac{1}{2}$	.851	13.60	16, 36	$1\frac{5}{8}$	8.978	143.68	16
$\frac{9}{16}$	1.076	17.28	16	$1\frac{3}{4}$	10.413	166.56	16, 36
$\frac{5}{8}$	1.329	21.28	16, 36	$1\frac{7}{8}$	11.95	191.20	16
$1\frac{1}{16}$	1.608	25.76	16				
$\frac{3}{4}$	1.914	30.56	16, 36	2	13.60	217.60	16, 36
$1\frac{3}{16}$	2.246	35.84	16	$2\frac{1}{4}$	17.21	275.36	16, 36
$\frac{7}{8}$	2.605	41.60	16, 36	$2\frac{1}{2}$	21.25	340.00	16, 36
$1\frac{15}{16}$	2.990	47.84	16	$2\frac{5}{8}$	23.43	374.88	16
1	3.402	54.40	16, 36	$2\frac{3}{4}$	25.71	411.36	16

HOT ROLLED SQUARES**AISI C1018****AISI C1045****SPECIAL QUALITY SILICON .15/.30**

Chemical Analysis, page 279.

Physical properties, pages 288-289.

Identification color—C1018—Green, C1045—Yellow

Size in Inches	Weight per Footlbs.	Stock Lengths Feet	
		C1018	C1045
$\frac{3}{4}$	1.914	..	18
$\frac{7}{8}$	2.603	..	18
1	3.402	..	18
$1\frac{1}{8}$	4.303	..	18
$1\frac{1}{4}$	5.313	..	18
$1\frac{1}{2}$	7.650	..	18
$1\frac{3}{4}$	10.41	..	18
2	13.60	..	18
$2\frac{1}{4}$	17.21	..	18
$2\frac{1}{2}$	21.25	..	18
$2\frac{3}{4}$	25.71	..	18
3	30.60	20	20
$3\frac{1}{4}$	35.91	20	20
$3\frac{1}{2}$	41.65	20	20
$3\frac{3}{4}$	47.81	20	..
4	54.40	20	20
$4\frac{1}{2}$	68.85	20	..
5	85.00	20	20
6	122.04	20	..

C. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA


HOT ROLLED OVALS


M1020 Mild Steel

MERCHANT QUALITY

Size in Inches	Weight per Foot lbs.	Est. Wt. 16' Bar	Stock Lengths Feet
$\frac{1}{2} \times \frac{1}{4}$	.297	4.75	16
$\frac{5}{8} \times \frac{5}{16}$	.464	7.42	16
$\frac{7}{8} \times \frac{7}{16}$	.909	14.54	16


HOT ROLLED HALF OVALS


M1020 Mild Steel

MERCHANT QUALITY

Size in Inches	Weight per Foot lbs.	Est. Wt. 16' Bar	Stock Lengths Feet
$\frac{5}{8} \times \frac{3}{16}$	.284	4.54	16
$\frac{3}{4} \times \frac{3}{16}$	.334	5.34	16
$\frac{3}{4} \times \frac{1}{4}$	.460	7.36	16
1 $\times \frac{1}{4}$	.594	9.50	16
$1\frac{1}{8} \times \frac{1}{4}$	.662	10.59	16
$1\frac{1}{4} \times \frac{5}{16}$	.928	14.85	16
$1\frac{1}{2} \times \frac{5}{16}$	1.099	17.58	16
$1\frac{1}{2} \times \frac{3}{8}$	1.337	21.39	16
$1\frac{3}{4} \times \frac{7}{16}$	1.819	29.12	16
2 $\times \frac{1}{2}$	2.376	38.08	16


**HOT ROLLED
HALF ROUNDS**


M1020 Mild Steel

MERCHANT QUALITY

Size in Inches	Weight per Foot lbs.	Est. Wt. 16' Bar	Stock Lengths Feet
$\frac{1}{2}$	.334	5.34	16
$\frac{5}{8}$	.522	8.35	16
$\frac{3}{4}$	.751	12.02	16
$\frac{7}{8}$	1.022	16.35	16
1	1.335	21.36	16
$1\frac{1}{4}$	2.086	33.38	16
$1\frac{1}{2}$	3.004	48.06	16
$1\frac{3}{4}$	4.089	64.42	16
2	5.340	85.44	16
$2\frac{1}{2}$	8.345	133.52	16
3	12.015	192.24	16

DETROIT 12
Twinbro
ail Box 148
13400 Mt.

HOT ROLLED STRIP

BANDS

Open Hearth—15 Max. Carbon Commercial Quality
STOCK LENGTHS 16 Ft.

B.W. Gage and Size Inches	Weight per Foot Lbs.	Est. Wt. 16' Bar	B.W. Gage and Size Inches	Weight per Foot Lbs.	Est. Wt. 16' Bar		
No. 16 (.065")					1/8 (.125")		
$\frac{1}{2}$	.1105	1.77	2	.850	13.60	
$\frac{5}{8}$	.1381	2.21	$\frac{21}{4}$	.956	15.30
$\frac{3}{4}$	.1658	2.65	$\frac{2\frac{1}{2}}{4}$	1.062	17.01	
$\frac{7}{8}$	.1934	3.09	$\frac{2\frac{3}{4}}{4}$	1.169	18.70	
1	.2210	3.54	3	1.275	20.40		
$1\frac{1}{4}$	.2763	4.42	$3\frac{1}{4}$	1.381	22.10	
$1\frac{1}{2}$	.3315	5.30	$3\frac{1}{2}$	1.488	23.81	
$1\frac{3}{4}$	.3868	6.19	4	1.700	27.20	
2	.4420	7.07	$4\frac{1}{2}$	1.913	30.61		
$2\frac{1}{4}$	.4973	7.96	5	2.125	34.00	
$2\frac{1}{2}$	.5525	8.84	$5\frac{1}{2}$	2.338	37.41	
3	.6630	10.61	6	2.550	40.80		
No. 14 (.083")					7		
$\frac{1}{2}$	.1411	2.26	8	2.975	47.60	
$\frac{5}{8}$	.1764	2.82	9	3.400	54.40	
$\frac{3}{4}$	.2117	3.39	10	3.825	61.20	
$\frac{7}{8}$	.2469	3.95	12	4.250	68.00	
1	.2822	4.52	No. 10 (.134")				
$1\frac{1}{4}$	.3528	5.64	$\frac{1}{2}$	.228	3.65
$1\frac{1}{2}$	.4233	6.77	$\frac{5}{8}$	.285	4.56
$1\frac{3}{4}$	.4939	7.90	$\frac{3}{4}$	.342	5.47
2	.5644	9.03	$\frac{7}{8}$	.399	6.38	
$2\frac{1}{4}$	.6350	10.16	1	.456	7.30	
$2\frac{1}{2}$	.7055	11.29	$1\frac{1}{8}$	.513	8.21
$2\frac{3}{4}$	.7761	12.42	$1\frac{1}{4}$	.570	9.12
3	.8466	13.55	$1\frac{1}{2}$	.683	10.93	
$3\frac{1}{2}$	.9877	15.79	$1\frac{3}{4}$	.787	12.75
4	1.1288	18.05	2	.911	14.58		
No. 12 (.109")					$2\frac{1}{2}$		
$\frac{3}{8}$	.139	2.22	1.139	1.139	18.22	
$\frac{1}{2}$.185	2.96	3/16 (.1875")				
$\frac{5}{8}$	.232	3.71	$\frac{3}{8}$	.239	3.82
$\frac{3}{4}$	.278	4.45	$\frac{1}{2}$	.319	5.10
$\frac{7}{8}$	.324	5.18	$\frac{5}{8}$	.398	6.37
1	.371	5.94	$\frac{3}{4}$	.478	7.65	
$1\frac{1}{8}$	.417	6.67	$\frac{7}{8}$	.558	8.93
$1\frac{1}{4}$	.463	7.41	1	.638	10.21	
$1\frac{1}{2}$	.556	8.90	$1\frac{1}{8}$	.717	11.47
$1\frac{3}{4}$	.649	10.38	$1\frac{1}{4}$	.797	12.75
2	.741	11.86	$1\frac{3}{8}$	.877	14.03	
$2\frac{1}{4}$	.834	13.34	$1\frac{1}{2}$	.956	15.30
$2\frac{1}{2}$	.927	14.83	$1\frac{3}{4}$	1.116	17.92	
3	1.112	17.79	2	1.275	20.48		
$3\frac{1}{2}$	1.297	20.75	$2\frac{1}{4}$	1.43	22.88		
4	1.487	23.71	$2\frac{1}{2}$	1.59	25.44		
1/8 (.125")					$2\frac{3}{4}$		
$\frac{3}{8}$	.159	2.54	3	1.75	28.00	
$\frac{1}{2}$	.213	3.41	$3\frac{1}{4}$	1.91	30.56	
$\frac{5}{8}$	.266	4.26	4	2.07	33.12	
$\frac{3}{4}$	.319	5.10	$3\frac{1}{2}$	2.23	35.68	
$\frac{7}{8}$	.372	5.95	4	2.55	40.80	
1	.425	6.80	$4\frac{1}{2}$	2.87	45.92		
$1\frac{1}{8}$	.478	7.65	5	3.19	51.04	
$1\frac{1}{4}$	.531	8.50	$5\frac{1}{2}$	3.51	56.16	
$1\frac{3}{8}$	.584	9.34	6	3.83	61.28	
$1\frac{1}{2}$	.638	10.21	7	4.46	71.36	
$1\frac{3}{4}$	.744	11.90	8	5.10	81.60	

C. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



HOT ROLLED FLATS



M1020

MERCHANT QUALITY

Chemical analysis, page 279. Physical properties, page 288.

Identification color—Merchant Quality—Red.

Special Quality—Green.

	Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lgths. Feet		Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lgths. Feet
	1/4x 3/8	.319	5.10	16		5/16x1	1.06	16.96	16
	1/2	.425	6.80	16		1 1/8	1.20	19.20	16
	5/8	.531	8.50	16		1 1/4	1.33	21.28	16
	3/4	.638	10.21	16		1 3/8	1.46	23.36	16
	7/8	.744	11.90	16		1 1/2	1.59	25.44	16,36
	1	.850	13.60	16,36		1 3/4	1.86	29.76	16,36
	1 1/8	.956	15.30	16		2	2.13	34.08	16,36
	1 1/4	1.06	16.96	16,36		2 1/4	2.39	38.24	16,36
	1 3/8	1.17	18.72	16		2 1/2	2.66	42.56	16,36
	1 1/2	1.28	20.48	16,36		2 3/4	2.92	46.72	16
	1 5/8	1.38	22.08	16		3	3.19	51.04	16,36
	1 3/4	1.49	23.84	16,36		3 1/4	3.45	55.20	16
	2	1.70	27.20	16,36		3 1/2	3.72	59.52	16,36
	2 1/4	1.91	30.56	16,36		4	4.25	68.00	16,36
	2 1/2	2.13	34.08	16,36		4 1/2	4.78	76.48	16,36
	2 3/4	2.34	37.44	16		5	5.31	84.96	16,36
	3	2.55	40.80	16,36		5 1/2	5.84	93.44	16,36
	3 1/4	2.76	44.16	16		6	6.38	102.08	16,36
	3 1/2	2.98	47.68	16,36		7	7.44	119.04	20,40
	3 3/4	3.19	51.04	16		7 1/2	7.97	127.52	20,40
	4	3.40	54.40	16,36		8	8.50	136.00	20,40
	4 1/4	3.61	57.76	16,36		5/8x 1/2	.638	10.21	16
	4 1/2	3.83	61.28	16,36		5/8	.797	12.75	16
	5	4.25	68.00	16,36		3/4	.956	15.30	16
	5 1/2	4.68	74.88	16,36		7/8	1.12	17.92	16
	6	5.10	81.60	16,36		1	1.28	20.48	16,36
	7	5.95	95.20	20,40		1 1/8	1.43	22.88	16
	7 1/2	6.38	102.08	20,40		1 1/4	1.59	25.44	16
	8	6.80	108.80	20,40		1 3/8	1.75	28.00	16
	5/16x 1/2	.531	8.50	16		1 1/2	1.91	30.56	16,36
	5/8	.664	10.62	16		1 5/8	2.07	33.12	16
	3/4	.797	12.75	16		1 3/4	2.23	35.68	16,36
	7/8	.93	14.86	16		2	2.55	40.80	16,36

(Continued on following page)

DETROIT 12
Twinbrook
Mail Box 148
13400 Mt. E

Ch. D.M.



HOT ROLLED FLATS



M1020

MERCHANT QUALITY

Chemical analysis, page 279. Physical properties, page 288.

Identification color—Merchant Quality—Red.

Special Quality—Green.

(Continued from preceding page)

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet
3/8x2 1/4	2.87	45.92	16,36	1/2x 5/8	1.06	16.96	16
2 1/2	3.19	51.04	16,36	3/4	1.28	20.48	16
2 3/4	3.51	56.16	16	7/8	1.49	23.84	16
3	3.83	61.28	16,36	1	1.70	27.20	16,36
3 1/4	4.14	66.24	16	1 1/8	1.91	30.56	16
3 1/2	4.46	71.36	16,36	1 1/4	2.13	34.08	16
4	5.10	81.60	16,36	1 3/8	2.34	37.44	16
4 1/2	5.74	91.84	16,36	1 1/2	2.55	40.80	16,36
5	6.38	102.08	16,36	1 5/8	2.76	44.16	16
5 1/2	7.01	112.16	16,36	1 3/4	2.98	47.68	16,36
6	7.65	122.40	16,36	2	3.40	54.40	16,36
7	8.93	142.88	20,40	2 1/4	3.83	61.28	16
7 1/2	9.56	152.96	20,40	*2 1/2	4.25	68.00	16,36
8	10.20	163.20	20,40	2 3/4	4.68	74.88	16
7/16x 3/4	1.12	17.92	16	*3	5.10	81.60	16,36
7/8	1.30	20.80	16	3 1/4	5.53	88.48	16,36
1	1.49	23.84	16	3 1/2	5.95	95.20	16,36
1 1/4	1.86	29.76	16	4	6.80	108.80	16,36
1 3/8	2.05	32.80	16	4 1/2	7.65	122.40	16,36
1 1/2	2.23	35.68	16	5	8.50	136.00	16,36
1 3/4	2.60	41.60	16	5 1/4	8.93	142.88	16
2	2.98	47.68	16	5 1/2	9.35	149.60	16,36
2 1/4	3.35	53.60	16	6	10.20	163.20	16,36
2 1/2	3.72	59.52	16	7	11.90	190.40	20,40
3	4.46	71.36	16	8	13.60	217.60	20,40
3 1/2	5.21	83.36	16	5/8x 3/4	1.59	25.44	16
4	5.95	95.20	16	7/8	1.86	29.76	16
4 1/2	6.69	107.04	16	1	2.13	34.08	16
5	7.44	119.04	16	1 1/8	2.39	38.24	16
5 1/2	8.18	130.88	16	1 1/4	2.66	42.56	16
6	8.93	142.88	16	1 3/8	2.92	46.72	16
7	10.41	166.56	20,40	1 1/2	3.19	51.04	16,36
8	11.90	190.40	20,40	1 5/8	3.45	55.20	16

(Continued on following page)

*Also carried Round Edge

Ch. D.M.

WEIGHTS
DATAC. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPER



HOT ROLLED FLATS



M1020

MERCHANT QUALITY

Chemical analysis, page 279. Physical properties, page 288.

Identification color—Merchant Quality—Red.

Special Quality—Green.

(Continued from preceding page)

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet
5 $\frac{1}{2}$ x1 $\frac{3}{4}$	3.72	59.52	16,36	3 $\frac{1}{2}$ x6	15.30	244.80	16,36
2	4.25	68.00	16,36	7	17.85	285.60	20,40
2 $\frac{1}{4}$	4.78	76.48	16	8	20.40	326.40	20,40
2 $\frac{1}{2}$	5.31	84.96	16,36	3 $\frac{1}{2}$ x1	2.98	47.68	16
2 $\frac{3}{4}$	5.84	93.44	16,36	1 $\frac{1}{4}$	3.72	59.52	16
3	6.38	102.08	16,36	1 $\frac{3}{8}$	4.09	65.44	16
3 $\frac{1}{4}$	6.91	110.56	16	1 $\frac{1}{2}$	4.46	71.36	16,36
3 $\frac{1}{2}$	7.44	119.04	16,36	1 $\frac{3}{4}$	5.21	83.20	16
4	8.50	136.00	16,36	2	5.95	95.20	16,36
4 $\frac{1}{2}$	9.56	152.96	16,36	2 $\frac{1}{4}$	6.69	107.40	16,36
5	10.63	170.08	16,36	2 $\frac{1}{2}$	7.44	119.04	16,36
5 $\frac{1}{2}$	11.69	187.04	16,36	2 $\frac{3}{4}$	8.18	130.88	16,36
6	12.75	204.00	16,36	3	8.93	142.88	16,36
7	14.88	238.00	20,40	3 $\frac{1}{2}$	10.41	166.56	16,36
8	17.00	272.00	20,40	4	11.90	190.40	16,36
3 $\frac{1}{4}$ x $\frac{7}{8}$	2.23	35.68	16	4 $\frac{1}{2}$	13.39	214.24	16,36
1	2.55	40.80	16	5	14.88	238.08	16,36
1 $\frac{1}{8}$	2.87	45.92	16	5 $\frac{1}{2}$	16.36	261.76	16,36
1 $\frac{1}{4}$	3.19	51.04	16	6	17.85	285.60	16,36
1 $\frac{1}{2}$	3.83	61.28	16,36	7	20.83	333.28	20,40
1 $\frac{5}{8}$	4.14	66.24	16	8	23.80	380.80	20,40
1 $\frac{3}{4}$	4.46	71.36	16,36	1 x1 $\frac{1}{4}$	4.25	68.00	16,36
2	5.10	81.60	16,36	1 $\frac{1}{2}$	5.10	81.60	16,36
2 $\frac{1}{4}$	5.74	91.84	16	1 $\frac{3}{4}$	5.95	95.20	16,36
2 $\frac{1}{2}$	6.38	102.08	16,36	2	6.80	108.80	16,36
2 $\frac{3}{4}$	7.01	112.16	16	2 $\frac{1}{4}$	7.65	122.40	16,36
3	7.65	122.40	16,36	2 $\frac{1}{2}$	8.50	136.00	16,36
3 $\frac{1}{4}$	8.29	132.64	16	2 $\frac{3}{4}$	9.35	149.60	16,36
3 $\frac{1}{2}$	8.93	142.88	16,36	3	10.20	163.20	16,36
4	10.20	163.20	16,36	3 $\frac{1}{4}$	11.05	176.80	16,36
4 $\frac{1}{2}$	11.48	183.68	16,36	3 $\frac{1}{2}$	11.90	190.40	16,36
5	12.75	204.00	16,36	4	13.60	217.60	16,36
5 $\frac{1}{2}$	14.03	224.48	16,36	4 $\frac{1}{2}$	15.30	244.80	16,36

(Continued on following page)

HOT ROLLED FLATS

M1020

MERCHANT QUALITY

Chemical analysis, page 279. Physical properties, page 288.

Identification color—Yellow.

Special Quality—Green.

(Continued from preceding page)

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Est. Wt. 16' Bar	Stock Lengths Feet
1 x5	17.00	272.00	16,36	1½x5	25.50	408.00	16,36
5½	18.70	299.20	16,36	5½	28.05	448.80	16,36
6	20.40	326.40	16,36	6	30.60	489.60	16,36
7	23.80	380.80	20,40	7	35.70	571.20	20,40
8	27.20	435.20	20,40	*8	40.80	652.80	20,40
1½x2	7.65	122.40	16,36	1¾x2	11.90	190.40	16,36
3	11.48	183.68	16,36	2½	14.88	238.08	16,36
4	15.30	244.80	16,36	3	17.85	285.60	16,36
5	19.13	306.08	16,36	3½	20.83	333.28	16,36
6	22.95	367.20	16,36	4	23.80	380.80	16,36
1¼x1½	6.38	102.08	16,36	4½	26.78	428.48	16,36
1¾	7.44	119.04	16,36	5	29.75	476.00	16,36
2	8.50	136.00	16,36	5½	32.73	523.68	16,36
2¼	9.56	152.96	16,36	6	35.70	571.00	16,36
2½	10.63	170.08	16,36	2 x2½	17.00	272.00	16,36
2¾	11.69	185.60	16,36	3	20.40	326.40	16,36
3	12.75	204.00	16,36	3½	23.80	380.80	16,36
3¼	13.81	220.96	16,36	3¾	25.50	408.00	16,36
3½	14.88	238.08	16,36	4	27.20	435.20	16,36
4	17.00	272.00	16,36	4½	30.60	489.60	16,36
4½	19.13	306.08	16,36	5	34.00	544.00	16,36
5	21.25	340.00	16,36	*6	40.80	652.90	16,36
5½	23.37	373.92	16	2¼x4	30.60	489.60	16,36
6	25.50	408.00	16,36	2½x3	25.50	408.00	16,36
7	29.75	476.00	20,40	3½	29.75	476.00	16,36
8	34.00	544.00	20,40	4	34.00	544.00	16,36
1½x2	10.20	163.20	16,36	4½	38.25	612.00	16,36
2¼	11.48	183.68	16,36	*5	42.50	680.00	16,36
2½	12.75	204.00	16,36	*6	51.00	816.00	16,36
3	15.30	244.80	16,36	*3 x4	40.80	652.80	16,36
3½	17.85	285.60	16,36	* 4½	45.90	734.40	16,36
4	20.40	326.40	16,36	* 5	51.00	816.00	16,36
4½	22.95	367.20	16,36	* 6	61.20	979.20	16,36

*Special Quality—C1018.

Ch. D. M.

WEIGHTS
DATAC. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPER



HOT ROLLED FLATS



.40—.50 CARBON

MERCHANT QUALITY

Chemical analysis, page 279. Physical properties, page 289.

Identification color—Yellow.

	Size in Inches	Wt. per Foot Pounds	Stock Lengths Feet	Size in Inches	Wt. per Foot Pounds	Stock Lengths Feet
1/8—	1/4 x 1	0.85	16	5/8 x 5	10.63	16
	1 1/4	1.06	16	6	12.75	16
	1 1/2	1.28	16	3/4 x 1 1/2	3.83	16
	2	1.70	16	2	5.10	16
	2 1/4	1.91	16	2 1/2	6.38	16
	2 1/2	2.13	16	3	7.65	16
7/31	3	2.55	16	4	10.20	16
1/4—	4	3.40	16	5	12.75	16
	5	4.25	16	6	15.30	16
	6	5.10	16	7/8 x 2	5.95	16
9/31	5/16 x 1 1/2	1.59	16	2 1/2	7.44	16
5/16—	3/8 x 5/8	0.80	16	3	8.93	16
	1	1.28	16	4	11.90	16
	1 1/4	1.59	16	6	17.85	16
11/3	1 1/2	1.91	16	1 x 2	6.80	16
3/8—	2	2.55	16	2 1/2	8.50	16
	2 1/4	2.87	16	3	10.20	16
	2 1/2	3.19	16	4	13.60	16
13/3	3	3.83	16	5	17.00	16
	3 1/2	4.46	16	6	20.40	16
7/16—	4	5.10	16	1 1/4 x 2	8.50	16
	5	6.38	16	2 1/2	10.63	16
15/3	6	7.65	16	3	12.75	16
1/2—	1/2 x 1	1.70	16	4	17.00	16
	1 1/4	2.13	16	5	21.25	16
	1 1/2	2.55	16	6	25.50	16
	2	3.40	16	1 1/2 x 2	10.20	16
	2 1/2	4.25	16	2 1/2	12.75	16
	3	5.10	16	3	15.30	16
	4	6.80	16	4	20.40	16
	5	8.50	16	5	25.50	16
	6	10.20	16	6	30.60	16
DETROIT 12 Twinbr Mail Box 148 13400 Mt.	5/8 x 1 1/2	3.19	16	2 x 2 1/2	17.00	16
	2	4.25	16	3	20.40	16
	2 1/2	5.31	16	4	27.20	16
	3	6.38	16	5	34.00	16
	4	8.50	16	*6	40.80	16

*Special Quality—C1045.

COLD FINISHED ROUNDS**AISI C1018—C1040—C1045**

Chemical Analysis, Page 279.

Physical Properties, Pages 288-289.

Identification Color: C1018—Green; C1040-42-45—Yellow.

Size in Inches	Weight per Foot Lbs.	Est. Wt. 12' Bar	Random Lengths in Feet	
			1018	C1040-45
1/8	.042	.501	12	
9/64	.053	.634	12	
5/32	.065	.782	12	
11/64	.079	.948	12	
3/16	.094	1.127	12	12
7/32	.128	1.530	12	
1/4	.167	2.000	12	12
17/64	.188	2.26	12	
9/32	.211	2.53	12	
5/16	.261	3.13	12	12
23/64	.288	3.45	12	
11/32	.316	3.79	12	
3/8	.376	4.51	12	12
13/32	.441	5.28	12	
7/16	.511	6.13	12	12
15/32	.587	7.04	12	
1/2	.668	8.01	12	12
33/64	.710	8.52	12	
17/32	.754	9.04	12	
9/16	.845	10.14	12	
19/32	.941	11.30	12	12
39/64	.992	11.90	12	
5/8	1.043	12.52	12	12
41/64	1.096	13.15	12	
21/32	1.150	13.80	12	
11/16	1.262	15.15	12	12
23/32	1.380	16.55	12	
47/64	1.440	17.28	12	
3/4	1.502	18.03	12, 20	12
49/64	1.565	18.78	12	
25/32	1.630	19.56	12	
13/16	1.763	21.15	12, 20	12
27/32	1.901	22.81	12	
7/8	2.045	24.53	12, 20	12
57/64	2.118	25.42	12	
29/32	2.193	26.32	12	
15/16	2.347	28.16	12, 20	12
1	2.670	32.04	12, 16, 20	12, 16, 20
11/16	3.015	36.18	12, 16, 20	.
1 1/8	3.380	40.56	12, 16, 20	12, 16, 20
1 3/16	3.766	45.19	12, 16, 20	12, 16, 20
1 1/4	4.172	50.07	12, 16, 20	12, 16, 20
1 5/16	4.600	55.20	12, 20	12, 16, 20
1 3/8	5.049	60.58	12, 16, 20	12, 16, 20
1 7/16	5.518	66.22	12, 16, 20	12, 16, 20
1 1/2	6.008	72.10	12, 16, 20	12, 16, 20
1 9/16	6.519	78.23	12, 16, 20	12, 16, 20
1 5/8	7.051	84.62	12, 16, 20	12, 16, 20
1 11/16	7.604	91.25	12, 16, 20	12, 16, 20
1 3/4	8.178	98.14	12, 16, 20	12, 16, 20
1 13/16	8.773	105.27	12, 20	12, 16, 20
1 7/8	9.388	112.66	12, 16, 20	12, 16, 20
1 15/16	10.024	120.29	12, 16, 20	12, 16, 20

(Continued on following page)

C. F.
BARSALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATAMUSIC
WIR
SPRING
WIR

COLD FINISHED ROUNDS**AISI C1018—C1040—C1045**

Sizes 2-15/16" and larger are Turned and Polished

Chemical Analysis, Page 279.

Physical Properties, Pages 288-289.

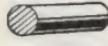
Identification Color: C1018—Green; C1040-42-45—Yellow.

(Continued from Preceding Page)

Size in Inches	Weight per Foot Lbs.	Random Lengths in Feet	
		1018	1040-45
2	10.68	12, 16, 20	12, 16, 20
2 ¹ / ₁₆	11.36	12, 16, 20	.
2 ¹ / ₈	12.06	12, 16, 20	12, 16, 20
2 ³ / ₁₆	12.78	12, 16, 20	12, 16, 20
2 ¹ / ₄	13.52	12, 16, 20	12, 16, 20
2 ⁵ / ₁₆	14.28	12, 16, 20	20
2 ³ / ₈	15.06	12, 16, 20	12, 16, 20
2 ⁷ / ₁₆	15.87	12, 16, 20	12, 16, 20
2 ¹ / ₂	16.69	12, 16, 20	12, 16, 20
2 ⁹ / ₁₆	17.53	12, 20	.
2 ⁵ / ₈	18.40	12, 16, 20	12, 20
2 ¹¹ / ₁₆	19.29	12, 16, 20	12, 16, 20
2 ³ / ₄	20.19	12, 16, 20	12, 16, 20
2 ¹³ / ₁₆	21.12	12, 20	12, 20
2 ⁷ / ₈	22.07	12, 16, 20	12, 16, 20
2 ¹⁵ / ₁₆	23.04	*12, 16, 20	12, 16, 20
3	24.03	*12, 16, 20	10, 20
3 ¹ / ₁₆	25.05	*10, 20	.
3 ¹ / ₈	26.08	*12, 16, 20	10, 20
3 ³ / ₁₆	27.13	*20	20
3 ¹ / ₄	28.21	*12, 20	10, 20
3 ⁵ / ₁₆	29.30	*20	.
3 ³ / ₈	30.42	*12, 16, 20	10, 20
3 ⁷ / ₁₆	31.55	*12, 16, 20	20
3 ¹ / ₂	32.71	*12, 20	20
3 ⁹ / ₁₆	33.89	*20	.
3 ⁵ / ₈	35.09	*12, 20	20
3 ¹¹ / ₁₆	36.31	*10, 20	20
3 ³ / ₄	37.55	*12, 20	10, 20
3 ¹³ / ₁₆	38.81	*20	.
3 ⁷ / ₈	40.10	*12, 16, 20	10, 20
3 ¹⁵ / ₁₆	41.40	*16, 20	10, 20
4	42.73	*12, 20	10, 20
4 ¹ / ₈	45.44	20	10, 20
4 ³ / ₁₆	46.83	20	10, 20
4 ¹ / ₄	48.23	12, 20	10, 20
4 ⁵ / ₁₆	49.66	20	.
4 ³ / ₈	51.11	20	20
4 ⁷ / ₁₆	52.58	20	10, 20
4 ¹ / ₂	54.08	12, 20	10, 20
4 ⁹ / ₁₆	55.59	20	.
4 ⁵ / ₈	57.12	10, 20	10, 20
4 ¹¹ / ₁₆	58.68	20	20
4 ³ / ₄	60.25	12, 20	10, 20
4 ⁷ / ₈	63.46	20	10, 20
4 ¹⁵ / ₁₆	65.10	10, 20	10, 20
5	66.76	12, 20	10, 20
5 ¹ / ₈	70.14	20	.
5 ¹ / ₄	73.60	10, 20	20
5 ³ / ₈	77.15	20	.
5 ⁷ / ₁₆	78.95	20	.
5 ¹ / ₂	80.78	12, 20	10, 20
5 ⁵ / ₈	84.49	20	.

*Available in Cold Drawn or Turned and Polished.

DETROIT 12
Twinbro
Mail Box 148
13400 Mt.


COLD FINISHED ROUNDS

AISI C1018—C1040—C1045

Sizes 2-15/16" and Larger are Turned and Polished

Chemical Analysis, Page 279.

Physical Properties, Pages 288-289.

Identification Color: C1018—Green; C1040-42-45—Yellow.

(Continued from preceding page)

Size in Inches	Weight Per Foot Lbs.	Random Lengths in Feet	
		1018	1040-45
5 3/4	88.29	12, 20	10, 20
5 7/8	92.17	20	10, 20
5 15/16	94.14	20	20
6	96.13	12, 20	10, 20
6 1/4	104.31	12	20
6 1/2	112.82	12	20
6 3/4	121.67	12	..
7	130.85	12	16, 20
7 1/4	140.36	..	12
7 1/2	150.21	12	..
7 3/4	160.39	..	16, 20
8	170.90	16, 20	..
8 1/2	192.93	16, 20	..
9	216.30	16, 20	..
10	267.00	16, 20	..


COLD FINISHED ROUNDS

**AISI B1112, C1212
AISI B1113, MX1113, C1213, MX1213****LEADED 1113, GRADE A
SUPER LEADED, GRADE B**

Sizes 2 7/8" and Smaller are Cold Drawn

Chemical Analysis, page 278. • Physical Properties, page 288.

Identification Color: 1112, C1212—Red

1113, MX1113, 1213, MX1213—Lavender.

Leaded 1113—White; Superleded—Black.

Size in Inches	Weight Per Foot Lbs.	Random Lengths in Feet			
		B1112 C1212	B1113 MX1113 C1213 MX1213	Leaded 1113 Grade A	Super Leaded Grade B
1/16	.010	12	12	..	..
5/64	.016	..	12	..	..
3/32	.023	..	12	..	..
7/64	.032	..	12	..	..
1/8	.042	12	12	12	..
9/64	.053	..	12	12	..
5/32	.065	12	12	12	..
11/64	.079	..	12	12	..
3/16	.094	12	12	12	..
13/64	.110	..	12	12	..
7/32	.128	12	12	12	..
15/64	.147	..	12	12	..
1/4	.167	12	12	12	12
17/64	.188	..	12	12	..

(Continued on following page)

ALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



COLD FINISHED ROUNDS



AISI B1112, C1212

AISI B1113, MX1113, C1213, MX1213

SUPER LEADED, GRADE B

LEADED 1113, GRADE A

Sizes 2 $\frac{1}{8}$ " and Smaller are Cold Drawn

Chemical Analysis, page 278. • Physical Properties, page 288.

Identification Colors—1112, 1212—Red.

1113, MX1113, 1213, MX1213—Lavender.

Leaded 1113—White; Super Leaded—Black.

(Continued from preceding page)

Size in Inches	Weight per Foot Lbs.	Random Lengths Feet			
		B1112 C1212	MX1113 C1213 MX1213	Leaded 1113 Grade A	Super Leaded Grade B
9/32	.211	12	12	12	..
19/64	.235	..	12	12	..
5/16	.261	12	12	12	..
21/64	.288	..	12	12	12
11/32	.316	12	12	12	..
23/64	.345	..	12	12	..
3/8	.376	12	12	12	12
25/64	.408	..	12	12	..
13/32	.441	12	12	12	..
27/64	.475	..	12	12	..
7/16	.511	12	12	12	12
29/64	.548	..	12	12	..
15/32	.587	..	12	12	..
31/64	.627	..	12	12	..
1/2	.668	12	12	12	..
33/64	.710	..	12	12	12
17/32	.754	12	12	12	..
35/64	.799	..	12	..	..
9/16	.845	12	12	12	12
37/64	.893	..	12	12	..
19/32	.941	12	12	12	..
39/64	.992	..	12	12	..
5/8	1.043	12	12	12	12
41/64	1.096	..	12	12	..
21/32	1.150	12	12	12	..
43/64	1.205	..	12	..	..
11/16	1.262	12	12	12	12
45/64	1.320	..	12	..	..
23/32	1.380	12	12	12	..
47/64	1.440	..	12	12	..
3/4	1.502	12	12	12	12
49/64	1.565	..	12	12	..
25/32	1.631	12	12	12	..
13/16	1.763	12	12	12	..
27/32	1.901	12	12	12	..
7/8	2.045	12	12	12	12
57/64	2.118	..	12	12	..
29/32	2.193	12	12	12	..
15/16	2.347	12	12	12	..
31/32	2.506	..	12	12	..
63/64	2.588	..	12	..	..
1	2.670	12	12	12	12
11/32	2.840	12	12	..	..
11/16	3.015	12	12	12	..
11/8	3.380	12	12	12	..
13/16	3.766	12	12	12	..
11/4	4.172	12	12	12	..
15/16	4.600	12	12	12	..

(Continued on following page)

ETROIT
Twint
Mail Box 1
13400 M

COLD FINISHED ROUNDS

AISI B1112, C1212
 AISI B1113, MX1113, C1213, MX1213

LEADED 1113, GRADE A
SUPER LEADED, GRADE B

Sizes $2\frac{7}{8}$ " and Smaller are Cold Drawn
 Sizes $2\frac{15}{16}$ " and Larger are Turned and Polished

Chemical Analysis, page 278. • Physical Properties, page 288.

Identification Colors—1112, 1212—Red.

1113, MX1113, 1213, MX1213—Lavender.

Leaded 1113—White; Super Leaded—Black.

(Continued from preceding page)

Size in Inches	Weight per Ft. Lbs.	Random Lengths, Feet			
		B1112 C1212	B1113 MX1113 C1213 MX1213	Leaded 1113 Grade A	Super Leaded Grade B
$1\frac{3}{8}$	5.049	12	12	12	..
$1\frac{7}{16}$	5.518	12	12	12	..
$1\frac{1}{2}$	6.008	12	12	12	..
$1\frac{9}{16}$	6.519	12	12	12	..
$1\frac{5}{8}$	7.051	12	12	12	..
$1\frac{11}{16}$	7.604	12	12	12	..
$1\frac{3}{4}$	8.178	12	12	12	..
$1\frac{13}{16}$	8.773	12	12	12	..
$1\frac{7}{8}$	9.388	12	12	12	..
$1\frac{15}{16}$	10.024	12	12	12	..
2	10.69	12	12	12	..
$2\frac{1}{16}$	11.36	12	12	12	..
$2\frac{1}{8}$	12.06	12	12	12	..
$2\frac{3}{16}$	12.78	12	12	12	..
$2\frac{1}{4}$	13.52	12	12	12	..
$2\frac{5}{16}$	14.28	12	12	12	..
$2\frac{3}{8}$	15.06	12	12	12	..
$2\frac{7}{16}$	15.87	12	12	12	..
$2\frac{1}{2}$	16.69	12	12	12	..
$2\frac{9}{16}$	17.53	12	12	12	..
$2\frac{5}{8}$	18.40	12	12	12	..
$2\frac{11}{16}$	19.29	12	12	12	..
$2\frac{3}{4}$	20.19	12	12	12	..
$2\frac{13}{16}$	21.12	12	12	12	..
$2\frac{7}{8}$	22.07	12	12	12	..
$2\frac{15}{16}$	23.04	..	*12	..	..
3	24.03	12	*12	*12	..
$3\frac{1}{8}$	26.08	12	*12	..	..
$3\frac{1}{4}$	28.21	12	*12	*12	..
$3\frac{3}{8}$	30.42	12	*12	..	..
$3\frac{7}{16}$	31.55	12	*12	..	..
$3\frac{1}{2}$	32.71	12	*12	..	..
$3\frac{5}{8}$	35.09	12	*12	..	..
$3\frac{3}{4}$	37.55	12	*12	..	..
$3\frac{7}{8}$	40.10	12	*12	..	..
4	42.73	12	*12	..	..
$4\frac{1}{8}$	45.44	12	12	..	..
$4\frac{1}{4}$	48.23	12	12	..	..
$4\frac{3}{8}$	51.11	12	12	..	..
$4\frac{1}{2}$	54.08	12	12	..	..
$4\frac{5}{8}$	57.12	..	12	..	..
$4\frac{3}{4}$	60.25	12	12	..	..
$4\frac{7}{8}$	63.46	12	12	..	..
5	66.76	12	12	..	..
$5\frac{1}{4}$	73.60	..	12	..	..
$5\frac{1}{2}$	80.78	..	12	..	..
$5\frac{3}{4}$	88.29	..	12	..	..
6	96.13	..	12	..	..

*Available in Cold Drawn or Turned and Polished.



COLD DRAWN ROUNDS

**AISI C1117—C1141—C1144
LEADED C1117**

Chemical Analysis, Page 278. Physical Properties, Pages 288-289.

Identification Color: C1117—Pink; C1141—Aluminum;
C1144—Brown.

Size in Inches	Weight per Foot Lbs.	Random Lengths Feet			
		C1117	Leaded C1117	C1141	C1144
$\frac{3}{16}$	.094	12	..	12	..
$\frac{7}{32}$	.128	12	..	..	..
$\frac{1}{4}$	.167	12	12	12	..
$\frac{9}{32}$	.211	12	..	..	..
$\frac{5}{16}$	.261	12	12	12	12
$\frac{11}{32}$	.316	12	..	..	..
$\frac{3}{8}$	.376	12	12	12	12
$\frac{7}{16}$	.511	12	12	12	12
9/32	.668	12	12	12	12
5/16	.845	12	12	12	12
11/32	1.043	12	12	12	12
13/32	1.262	12	12	12	12
15/32	1.502	12	12	12	12
13/16	1.763	12	12	12	12
17/32	2.045	12	12	12	12
15/16	2.347	12	12	12	12
1	2.670	12	12	12	12
7/16	3.015	12	12	12	12
15/32	3.380	12	12	12	12
13/16	3.766	12	12	12	12
11/8	4.172	12	12	12	12
15/16	4.600	12	12	12	..
17/32	5.049	12	12	12	12
19/32	5.518	12	12	12	12
11/2	6.008	12	12	12	12
19/16	6.519	12	12	12	..
15/8	7.051	12	12	12	12
111/16	7.604	12	12	12	12
13/4	8.178	12	12	12	12
113/16	8.773	12	12	12	..
17/8	9.388	12	12	12	12
115/16	10.024	12	12	12	..
2	10.68	12	12	12	12

(Continued on following page)



COLD FINISHED ROUNDS



AISI C1117—C1141—C1144 LEADED C1117

Sizes 2 $\frac{7}{8}$ " and under are Cold Drawn
Sizes over 2 $\frac{7}{8}$ " are Turned and Polished

Chemical Analysis, Page 278. Physical Properties, Pages 288-289.

Identification Color: C1117—Pink; C1141—Aluminum
C1144—Brown.

(Continued from preceding page)

Size in Inches	Weight per Foot Lbs.	Random Lengths Feet			
		C1117	Leaded C1117	C1141	C1144
2 $\frac{1}{16}$	11.36	12	12	..	..
2 $\frac{1}{8}$	12.06	12	12	12	..
2 $\frac{3}{16}$	12.78	12	12	..	..
2 $\frac{1}{4}$	13.52	12	12	12	12
2 $\frac{5}{16}$	14.28	12	12	12	..
2 $\frac{3}{8}$	15.06	12	12	12	..
2 $\frac{7}{16}$	15.87	12	12	12	..
2 $\frac{1}{2}$	16.69	12	12	12	12
2 $\frac{9}{16}$	17.53	12	..	12	..
2 $\frac{5}{8}$	18.40	12	12	12	..
2 $\frac{11}{16}$	19.29	12	..	12	..
2 $\frac{3}{4}$	20.19	12	12	12	..
2 $\frac{13}{16}$	21.12	12	..	..	..
2 $\frac{7}{8}$	22.07	12	12	12	..
2 $\frac{15}{16}$	23.04	*12	12	*12	..
3	24.03	*12	12	*12	12
3 $\frac{1}{8}$	26.08	*12	..	..	..
3 $\frac{1}{4}$	28.21	*12	..	*12	..
3 $\frac{3}{8}$	30.42	*12	..	*12	..
3 $\frac{1}{2}$	32.71	*12	..	*12	..
3 $\frac{5}{8}$	35.09	*12	..	..	..
3 $\frac{3}{4}$	37.55	*12	..	*12	..
3 $\frac{7}{8}$	40.10	*12	..	..	..
4	42.73	*12	..	*12	12
4 $\frac{1}{8}$	45.44	12	..	..	..
4 $\frac{1}{4}$	48.23	12	..	12	..
4 $\frac{3}{8}$	51.11	12	..	12	..
4 $\frac{1}{2}$	54.08	12	..	12	..
4 $\frac{5}{8}$	57.12	12	..	..	..
4 $\frac{3}{4}$	60.25	12	..	..	..
4 $\frac{7}{8}$	63.46	12	..	..	..
5	66.76	12	..	..	..
5 $\frac{1}{4}$	73.60	12	..	..	..
5 $\frac{1}{2}$	80.78	12	..	12	..
5 $\frac{3}{4}$	88.29	12	..	..	..
6	96.13	12	..	..	..

*Available in Cold Drawn or Turned and Polished.

ALLOY
BARS

SHEETS
STRIP

STEEL
TUBING

WIRE
DRILL ROD

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA



COLD DRAWN ROUNDS STRESSPROOF AND STRAIN RELIEVED C1144

A High Carbon Manganese Steel hard drawn to high physical properties and strain relieved. Possesses high physical properties without heat treatment. It may be used in many cases instead of alloy steels when high physical properties are desired.

Size Tolerances: 1" round and smaller, +.000" to -.004"; over 1" round to 2", +.000" to -.005". Over 2" round to 3 1/4" inclusive, +.000", -.008".

Physical properties, page 290.

Identification colors—Stressproof—Orange and Brown.
Strain Relieved 1144—Orange and Blue.

Size in Inches	Weight per Ft. Lbs.	Random Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Random Lengths Feet
1/4	.167	12	1 1/16	5.518	12
5/16	.261	12	1 1/2	6.008	12
21/64	.288	12	1 9/16	6.519	12
3/8	.376	12	1 5/8	7.051	12
7/16	.511	12	1 11/16	7.609	12
1/2	.668	12	1 3/4	8.178	12
9/16	.845	12	1 13/16	8.773	12
5/8	1.043	12	1 7/8	9.388	12
11/16	1.262	12	1 15/16	10.024	12
3/4	1.502	12	2	10.68	12
13/16	1.763	12	2 1/8	12.06	12
7/8	2.045	12	2 1/4	13.52	12
15/16	2.347	12	2 5/16	14.28	12
1	2.670	12	2 3/8	15.06	12
1 1/16	3.015	12	2 1/2	16.69	12
1 1/8	3.380	12	2 9/16	17.53	12
1 3/16	3.766	12	2 5/8	18.40	12
1 1/4	4.172	12	2 3/4	20.19	12
1 5/16	4.600	12	2 7/8	22.07	12
1 3/8	5.049	12	3	24.03	12
			3 1/4	28.21	12



ROUNDS FATIGUE PROOF



An exceptionally high strength carbon manganese steel that is readily machinable. Suitable in many applications as a replacement for heat treated alloy. Drawn by a newly developed patented process, this steel has a minimum tensile strength of 140,000 pounds P.S.I. and a minimum yield strength of 125,000 pounds P.S.I.

Size tolerance 1/16" to 1" Incl. +.000 to -.006.
Over 1" to 2 3/16" Incl. +.000 to -.008.

Physical Properties, Page 290.
Identification Color—Green and Orange.

Size in Inches	Weight per Ft. Lbs.	Random Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Random Lengths Feet
7/16	.511	12	1 3/16	3.766	12
1/2	.668	12	1 1/4	4.172	12
9/16	.845	12	1 3/8	5.049	12
5/8	1.043	12	1 1/2	6.008	12
11/16	1.262	12	1 5/8	7.051	12
3/4	1.502	12	1 3/4	8.178	12
13/16	1.763	12	1 13/16	8.773	12
7/8	2.045	12	1 7/8	9.388	12
15/16	2.347	12	2	10.68	12
1	2.670	12	2 1/8	12.06	12
1 1/16	3.015	12	2 3/16	12.78	12
1 1/8	3.380	12			

DETROIT 12,
Twinbroo
Mail Box 148 I
13400 Mt. E

ROUNDS
GROUND AND POLISHED
SPECIAL ACCURACY

AISI B1112, C1212
AISI B1113, MX1113, C1213, MX1213
AISI C1141

Mirror Polished—Tolerance Within .0005" Plus or Minus.

Identification colors: 1112, 1212—Red; 1113, MX1113, 1213,
 MX1213—Lavender; 1141—Aluminum.

Size in Inches	Weight per Ft. lbs.	Stock Lengths				Size in Inches	Weight per Ft. lbs.	Stock Lengths					
		B1113 MX1113		B1112	C1213			B1113 MX1113		C1212	MX1213		
		B1112	C1213					C1212	MX1213		C1141		
3/32	.023	12	12	..		11/16	1.262	12	12	12			
1/8	.042	12	12	..		3/4	1.502	12	12	12			
5/32	.065	12	12	..		13/16	1.763	12	12	..			
3/16	.094	12	12	12		7/8	2.045	12	12	12			
7/32	.128	12	12	..		15/16	2.347	12	12	12			
1/4	.167	12	12	12		1	2.670	12	12	12			
9/32	.211	12	12	..		1 1/16	3.015	12	12	12			
5/16	.261	12	12	12		1 1/8	3.380	12	12	12			
11/32	.316	12	12	..		1 3/16	3.766	12	12	12			
3/8	.376	12	12	12		1 1/4	4.172	12	12	12			
7/16	.511	12	12	12		1 5/16	4.600	12	12	..			
1/2	.668	12	12	12		1 3/8	5.049	12	12	..			
9/16	.845	12	12	..		1 7/16	5.513	12	12	..			
5/8	1.043	12	12	12		1 1/2	6.008	12	12	..			

ROUNDS
STRESSPROOF STEEL
GROUND AND POLISHED

Size Tolerances: Less than 2 1/2" rounds, +.000" to -.002"; 2 1/2" round and over including 3 1/4", +.000", -.003".

Physical Properties, Page 290.

Identification color—Orange and Brown.

Size in Inches	Weight Per Ft. Lbs.	Stock Lengths Feet	Size in Inches	Weight Per Ft. Lbs.	Stock Lengths Feet
3/8	.376	12-14	1 1/16	5.518	20
1/16	.511	12-14	1 1/2	6.008	12-14, 20
1/2	.668	12-14	1 5/8	7.051	20
9/16	.845	12-14	1 11/16	7.609	20
5/8	1.043	12-14	1 3/4	8.178	12-14, 20
3/4	1.502	12-14	1 7/8	9.388	12-14, 20
13/16	1.763	12-14	1 15/16	10.024	20
7/8	2.045	12-14	2	10.68	12, 20
15/16	2.347	12-14	2 1/8	12.06	12-14
1	2.670	12-14, 20	2 3/16	12.78	20
1 1/8	3.380	20	2 1/4	13.52	12-14, 20
1 3/16	3.766	12-14, 20	2 3/8	15.06	12-14
1 1/4	4.172	12-14, 20	2 1/2	16.69	12-14, 20
1 5/16	4.600	20	2 3/4	20.19	12-14
1 3/8	5.049	12-14, 20	3	24.03	20

ALLOY BARS
STEEL TUBING
WIRE DRILL ROD
STAINLESS STEELS
LUMINUM
BRASS COPPER
WEIGHTS DATA

CUMBERLAND

TURNED, GROUNDED AND
POLISHED SHAFTING

CHICAGO PLANT ONLY

AISI C1020—AISI C1025

This is the original Cumberland shafting manufactured by the Cumberland Steel Company who pioneered the commercial manufacture of this type of shaft. The various grades are unequalled for straightness, concentricity and uniformity.

Distortion is held to an absolute minimum in key-seating and similar operations because it is turned and ground from uniform quality hot rolled bars with no cold working operations.

Straightness, as shipped, is unequalled as turning and grinding are performed in one continuous operation. This is particularly important where bearings must be fitted over a long shaft, and in the lessening of vibration on all applications where shafts turn at a high speed.

Great care should be used in handling turned, ground and polished shafts in your plant as they are, particularly in small diameters, very easily sprung by rough handling. We recommend boxing for out-of-town shipment.

Made from low carbon bars with a minimum elastic limit of 40,000 pounds per square inch, with a tensile strength in excess of 70,000 pounds per square inch.

Identification colors, Cumberland—not painted.

Stock lengths, 12, 16, 20, 24 feet.

TOLERANCES

Sizes less than $2\frac{1}{2}$ " Round
Plus .000
Minus .002

Sizes $2\frac{1}{2}$ " Round and Over
Plus .000
Minus .003

Size in Inches	Weight per Ft. lbs.	Lengths in Feet	Size in Inches	Weight per Ft. lbs.	Lengths in Feet
1	2.670	12 to 24	$3\frac{3}{16}$	27.03	12 to 24
$1\frac{1}{8}$	3.380	12 to 24	$3\frac{1}{4}$	28.21	12 to 24
$1\frac{3}{16}$	3.766	12 to 24	$3\frac{5}{16}$	29.30	12 to 24
$1\frac{1}{4}$	4.172	12 to 24	$3\frac{3}{8}$	30.42	12 to 24
$1\frac{5}{16}$	4.600	12 to 24	$3\frac{7}{16}$	31.55	12 to 24
$1\frac{3}{8}$	5.049	12 to 24	$3\frac{1}{2}$	32.71	12 to 24
$1\frac{7}{16}$	5.518	12 to 24	$3\frac{9}{16}$	33.89	12 to 24
$1\frac{1}{2}$	6.008	12 to 24	$3\frac{5}{8}$	35.09	12 to 24
$1\frac{9}{16}$	6.519	12 to 24	$3\frac{11}{16}$	36.31	12 to 24
$1\frac{5}{8}$	7.051	12 to 24	$3\frac{3}{4}$	37.55	12 to 24
$1\frac{11}{16}$	7.604	12 to 24	$3\frac{13}{16}$	38.81	12 to 24
$1\frac{3}{4}$	8.178	12 to 24	$3\frac{7}{8}$	40.10	12 to 24
$1\frac{13}{16}$	8.773	12 to 24	$3\frac{15}{16}$	41.40	12 to 24
$1\frac{7}{8}$	9.388	12 to 24	4	42.73	12 to 24
$1\frac{15}{16}$	10.024	12 to 24	$4\frac{1}{8}$	45.44	12 to 24
2	10.68	12 to 24	$4\frac{1}{4}$	48.23	12 to 24
$2\frac{1}{16}$	11.36	12 to 24	$4\frac{5}{16}$	49.66	12 to 24
$2\frac{1}{8}$	12.06	12 to 24	$4\frac{3}{8}$	51.11	12 to 24
$2\frac{3}{16}$	12.78	12 to 24	$4\frac{7}{16}$	52.58	12 to 24
$2\frac{1}{4}$	13.52	12 to 24	$4\frac{1}{2}$	54.12	12 to 24
$2\frac{5}{16}$	14.28	12 to 24	$4\frac{5}{8}$	57.12	12 to 24
$2\frac{3}{8}$	15.06	12 to 24	$4\frac{3}{4}$	60.25	12 to 42
$2\frac{7}{16}$	15.87	12 to 24	$4\frac{7}{8}$	63.46	12 to 24
$2\frac{1}{2}$	16.69	12 to 24	$4\frac{15}{16}$	65.10	12 to 24
$2\frac{9}{16}$	17.53	12 to 24	5	66.76	12 to 24
$2\frac{5}{8}$	18.40	12 to 24	$5\frac{1}{4}$	73.60	12 to 24
$2\frac{11}{16}$	19.29	12 to 24	$5\frac{7}{16}$	78.95	12 to 24
$2\frac{3}{4}$	20.19	12 to 24	$5\frac{1}{2}$	80.78	12 to 24
$2\frac{13}{16}$	21.12	12 to 24	$5\frac{5}{8}$	84.49	12 to 24
$2\frac{7}{8}$	22.07	12 to 24	$5\frac{3}{4}$	88.29	12 to 24
$2\frac{15}{16}$	23.04	12 to 24	$5\frac{15}{16}$	94.14	12 to 24
3	24.03	12 to 24	6	96.13	12 to 24
$3\frac{1}{8}$	26.08	12 to 24			

DETROIT 12,

Twinbrook

Mail Box 148

13400 Mt. E

POTOMAC

TURNED, GROUNDED AND
POLISHED SHAFTING

CHICAGO PLANT ONLY

AISI C1040—AISI C1045

POTOMAC SHAFTING: Has the same desirable features as Cumberland but is made from uniform hot rolled bars approximating A.I.S.I. 1040-1045 analysis which shows a tensile strength of 90,000 pounds per square inch and a minimum elastic limit of 45,000 pounds per square inch, giving these shafts considerably higher physical properties than the lower carbon Cumberland grade. It is used for line and special machinery shafting requiring a greater degree of strength, where a high degree of straightness and uniformity is necessary with a distortion from key-seating operations at an absolute minimum.

Identification color—Blue.

Stock Lengths: 12, 16, 20, 24 feet.

TOLERANCES

Sizes less than 2 1/2" Round
Plus .000
Minus .002

Sizes 2 1/2" Round and Over
Plus .000
Minus .003

Size in Inches	Weight per Ft. lbs.	Lengths in Feet	Size in Inches	Weight per Ft. lbs.	Length in Feet
1	2.670	12 to 24	3 1/4	28.22	12 to 24
1 1/8	3.380	12 to 24	3 5/16	29.30	12 to 24
1 3/16	3.766	12 to 24	3 3/8	30.42	12 to 24
1 1/4	4.172	12 to 24	3 7/16	31.55	12 to 24
1 5/16	4.600	12 to 24	3 1/2	32.71	12 to 24
1 3/8	5.049	12 to 24	3 9/16	33.89	12 to 24
1 7/16	5.518	12 to 24	3 5/8	35.09	12 to 24
1 1/2	6.008	12 to 24	3 11/16	36.31	12 to 24
1 9/16	6.519	12 to 24	3 3/4	37.55	12 to 24
1 5/8	7.051	12 to 24	3 13/16	38.81	12 to 24
1 11/16	7.604	12 to 24	3 7/8	40.10	12 to 24
1 3/4	8.178	12 to 24	3 15/16	41.40	12 to 24
1 13/16	8.773	12 to 24	4	42.73	12 to 24
1 7/8	9.388	12 to 24	4 1/8	45.44	12 to 24
1 15/16	10.024	12 to 24	4 1/4	48.23	12 to 24
2	10.68	12 to 24	4 5/16	49.66	12 to 24
2 1/16	11.36	12 to 24	4 3/8	51.11	12 to 24
2 1/8	12.06	12 to 24	4 7/16	52.58	12 to 24
2 3/16	12.78	12 to 24	4 1/2	54.08	12 to 24
2 1/4	13.52	12 to 24	4 5/8	57.12	12 to 24
2 5/16	14.28	12 to 24	4 3/4	60.25	12 to 24
2 3/8	15.06	12 to 24	4 7/8	63.46	12 to 24
2 7/16	15.87	12 to 24	4 15/16	65.10	12 to 24
2 1/2	16.69	12 to 24	5	66.76	12 to 24
2 9/16	17.53	12 to 24	5 1/4	73.60	12 to 24
2 5/8	18.40	12 to 24	5 7/16	78.95	12 to 24
2 11/16	19.29	12 to 24	5 1/2	80.85	12 to 24
2 3/4	20.19	12 to 24	5 5/8	84.49	12 to 24
2 13/16	21.12	12 to 24	5 3/4	88.29	12 to 24
2 7/8	22.07	12 to 24	5 15/16	94.14	12 to 24
2 15/16	23.04	12 to 24	6	96.13	12 to 24
3	24.03	12 to 24	7	130.85	12 to 24
3 1/8	26.08	12 to 24	8	170.90	12 to 24
3 3/16	27.13	12 to 24			

ALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



CUMSCO
**TURNED, GROUNDED AND
POLISHED SHAFTING**



CHICAGO PLANT ONLY

AISI C1141

Cumisco shafting, manufactured by the Cumberland Steel Company has the same desirable features of straightness, concentricity and lack of distortion in key-seating that is found in all Cumberland grades. Cumisco shafting was originated by us to meet the requirements for lead screws and similar applications where strength, straightness, with freedom from distortion were necessary in applications requiring about 25% higher machinability than that found in Potomac or Cumberland grades. Minimum elastic limit is 55,000 pounds per square inch with a minimum of 90,000 pounds per square inch of tensile strength.

Identification colors—Aluminum—Yellow dot.

TOLERANCES

Sizes less than 2 $\frac{1}{2}$ " Round
Plus .000
Minus .002

Sizes 2 $\frac{1}{2}$ " Round and Over
Plus .000
Minus .003

Size in Inches	Weight per Ft. lbs.	Lengths in Feet
1 $\frac{1}{8}$	3.380	12 to 24
1 $\frac{3}{16}$	3.766	12 to 24
1 $\frac{1}{4}$	4.172	12 to 24
1 $\frac{5}{16}$	4.600	12 to 14
1 $\frac{3}{8}$	5.049	12 to 24
1 $\frac{7}{16}$	5.518	12 to 24
1 $\frac{1}{2}$	6.008	12 to 24
1 $\frac{9}{16}$	6.519	12 to 24
1 $\frac{5}{8}$	7.051	12 to 24
1 $\frac{11}{16}$	7.604	12 to 24
1 $\frac{3}{4}$	8.178	12 to 24
1 $\frac{13}{16}$	8.773	12 to 24
1 $\frac{7}{8}$	9.388	12 to 24
1 $\frac{15}{16}$	10.024	12 to 24
2	10.680	12 to 24
2 $\frac{1}{8}$	12.06	12 to 24
2 $\frac{3}{16}$	12.78	12 to 24
2 $\frac{1}{4}$	13.52	12 to 24
2 $\frac{3}{8}$	15.06	12 to 24
2 $\frac{7}{16}$	15.87	12 to 24
2 $\frac{1}{2}$	16.69	12 to 24
2 $\frac{3}{4}$	20.19	12 to 24
2 $\frac{7}{8}$	22.07	12 to 24
2 $\frac{15}{16}$	23.04	12 to 24
3	24.03	12 to 24
3 $\frac{1}{4}$	28.21	12 to 24
3 $\frac{7}{16}$	31.55	12 to 24
3 $\frac{1}{2}$	32.71	12 to 24
3 $\frac{15}{16}$	41.40	12 to 24
4 $\frac{1}{4}$	48.23	12 to 24
5	66.76	12 to 24
5 $\frac{1}{4}$	73.60	12 to 24
6	96.13	12 to 24

DETROIT 12

Twinbro
Mail Box 148
13400 Mt. I

COLD DRAWN HEXAGONS

AISI B1112, C1212
 AISI B1113, MX1113, C1213, MX1213
LEADED 1113, GRADE A
SUPER LEADED, GRADE B

Chemical Analysis, page 278. Physical Properties, page 288.

Identification colors: B1112, C1212—Red,

1113, MX1113, 1213, MX1213—Lavender.

Leaded 1113—White; Super Leaded—Black.

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12' Bar	Random Lengths, Feet			
			B1112 C1212	B1113 MX1113 C1213 MX1213	Leaded 1113 Grade A	Super Leaded Grade B
1/8	.046	0.552	12	12	..	..
3/16	.104	1.246	12	12	..	..
7/32	.141	1.69	..	12	..	..
1/4	.184	2.21	12	12	12	..
9/32	.233	2.80	12	12	..	..
5/16	.288	3.46	12	12	12	..
11/32	.348	4.18	12	12	..	..
3/8	.414	4.97	12	12	12	12
13/32	.486	5.83	..	12	..	..
7/16	.564	6.77	12	12	12	12
1/2	.736	8.83	12	12	12	..
9/16	.932	11.18	12	12	12	12
5/8	1.15	13.80	12	12	12	..
11/16	1.39	16.72	12	12	12	..
3/4	1.66	19.87	12	12	12	..
13/16	1.94	23.33	12	12	12	..
7/8	2.25	27.05	12	12	12	..
15/16	2.59	31.06	12	12	12	..
1	2.94	35.34	12	12	12	..
1 1/16	3.32	39.89	12	12	12	..
1 1/8	3.73	44.72	12	12	12	..
1 3/16	4.15	49.82	12	12	12	..
1 1/4	4.60	55.21	12	12	12	..
1 5/16	5.07	60.86	12	12	..	..
1 3/8	5.57	66.80	12	12	12	..
1 7/16	6.09	73.02	12	12	12	..
1 1/2	6.63	79.50	12	12	12	..
1 9/16	7.19	86.27	12	12	..	..
1 5/8	7.78	93.30	12	12	12	..
1 11/16	8.39	100.62	12	12	..	..
1 3/4	9.02	108.22	12	12	12	..
1 13/16	9.67	116.08	12	12	..	..
1 7/8	10.35	124.22	12	12	..	..
1 15/16	11.05	132.64	12	12	..	..
2	11.77	141.34	12	12	12	..
2 3/16	14.09	169.07	..	12	..	..
2 1/4	14.91	178.88	..	12	..	..
2 5/16	15.75	188.95	..	12	..	..
2 3/8	16.61	199.31	..	12	..	..
2 1/2	18.40	220.84	..	12	..	..
2 5/8	20.29	243.47	..	12	..	..
2 3/4	22.27	267.22	..	12	..	..
3	26.50	318.00	..	12	..	..

ALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



COLD DRAWN HEXAGONS



AISI C1117—C1018—C1045

STRESSPROOF

Chemical analysis, pages 278-279.

Physical Properties, pages 288-290.

Identification colors, AISI C1018—Green; C1117—Pink;

C1045—Yellow; Stressproof—Orange and Brown.

Size in Inches	Weight per Ft. Lbs.	Random Lengths, Feet			
		C1117	C1018	C1045	Stressproof
1/4	.184	12	12	..	..
5/16	.288	12	12	..	..
3/8	.414	12	12	..	12
7/16	.564	12	12	..	12
1/2	.736	12	12	12	12
9/16	.932	12	12	12	12
5/8	1.15	12	12	12	12
11/16	1.39	12	12	..	12
3/4	1.66	12	12	12	12
13/16	1.94	12	12	..	12
7/8	2.25	12	12	12	12
15/16	2.59	12	12	12	..
1	2.94	12	12	12	12
1 1/16	3.32	12	12	..	..
1 1/8	3.73	12	12	12	12
1 3/16	4.15	12	12	..	..
1 1/4	4.60	12	12	12	12
1 5/16	5.07	12	12	12	..
1 3/8	5.57	12	12	12	12
1 7/16	6.09	12	12	..	..
1 1/2	6.63	12	12	12	12
1 9/16	7.19	..	12	..	..
1 5/8	7.78	12	12	12	12
1 11/16	8.39	..	12	..	..
1 3/4	9.02	12	12	12	12
1 13/16	9.67	12	12	..	..
1 7/8	10.35	12	12	12	..
1 15/16	11.05	..	12	..	..
2	11.77	12	12	12	..
2 1/8	13.29	12	12	..	..
2 3/16	14.10	12	..	..	..
2 1/4	14.91	12	12	..	..
2 3/8	16.61	12	12	..	..
2 7/16	17.49	12	..	..	..
2 1/2	18.40	12	12	..	..
2 5/8	20.29	12	12	..	..
2 3/4	22.26	12	12	..	..
2 13/16	23.29	..	12	..	..
2 7/8	24.33	12	12	..	..
2 15/16	25.40	..	12	..	..
3	26.50	12	12	..	..
3 1/8	28.75	12	..	..	..
3 1/4	31.10	..	12	..	..
3 1/2	36.07	..	12	..	..
3 3/4	41.40	..	12	..	..
4	47.11	..	12	..	..

DETROIT 12,

Twinbrook

Mail Box 148 H

13400 Mt. El

**COLD DRAWN SQUARES****AISI C1018, C1045****AISI B1112, C1212****AISI B1113, MX1113, C1213, MX1213****LEADED 1113, GRADE A****MOLTRUP QUALITY**

Tolerance exact size to oversize

Chemical analysis, pages 278-279. Physical properties, pages 288-289.

Identification colors: 1018—Green; 1045—Yellow;
1112, 1212—Red; Leaded 1113—White;
1113, MX1113, C1213, MX1213—Lavender.

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12' Bar	C1018	Random Lengths, Feet				
				B1113 MX1113 C1213 MX1213	B1112 C1212	Leaded 1113	C1045	
1/8	.053	.636	12	12	12	..	..
5/32	.083	.996	..	12	12	..	..
3/16	.120	1.44	12	12	12	..	..
7/32	.163	1.96	..	12	12	..	..
1/4	.213	2.56	12	12	12	12	12	
9/32	.269	3.22	..	12	12	..	..
5/16	.332	3.98	12	12	12	12	12	
3/8	.478	5.74	12	12	12	12	12	
7/16	.651	7.81	12	12	12	12	..	
1/2	.850	10.20	12	12	12	12	12	
9/16	1.076	12.96	12	12	12	12	..	
5/8	1.329	15.96	12	12	12	12	12	
11/16	1.608	19.32	12	12	12	..	..
3/4	1.914	22.92	12	12	12	12	12	
13/16	2.246	27.00	12	12	12	12	..	
7/8	2.605	31.20	12	12	12	12	12	
15/16	2.990	35.88	12	12	12	12	..	
1	3.402	40.80	12	12	12	12	12	
1 1/16	3.841	46.08	12	12	12	..	..
1 1/8	4.306	51.60	12	12	12	12	12	
1 3/16	4.798	57.60	12	12	12	..	..
1 1/4	5.316	63.72	12	12	12	12	12	
1 5/16	5.861	70.32	12	..	..	..	..
1 3/8	6.432	77.16	12	..	..	12	..	
1 7/16	7.030	84.36	12	..	..	..	..
1 1/2	7.655	91.80	12	12	12	12	12	
1 9/16	8.306	99.60	12	..	..	..	..
1 5/8	8.984	107.76	12	..	..	..	..
1 3/4	10.419	124.92	12	12	12	..	12	
1 7/8	11.95	143.40	12	..	..	..	..
2	13.60	163.20	12	12	12	..	12	
2 1/8	15.35	184.20	12	..	..	..	..
2 1/4	17.22	206.52	12	..	..	..	12	
2 3/8	19.18	230.16	12	..	..	..	..
2 1/2	21.26	255.00	12	12	12	..	12	

(Continued on following page)

ALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

**COLD DRAWN SQUARES****AISI C1018, C1045****AISI B1112, C1212****AISI B1113, MX1113, C1213, MX1213****MOLTRUP QUALITY**

Tolerance exact size to oversize

Chemical analysis, pages 278-279. Physical properties, pages 288-289.

Identification colors: 1018—Green; 1045—Yellow;

1112, 1212—Red;

1113, MX1113, 1213, MX1213—Lavender.

(Continued from preceding page)

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12' Bar	C1018	Random Lengths, Feet			
				B1112 C1212	B1113 MX1113 C1213 MX1213	B1113 MX1113 C1213 MX1213	C1045
2 $\frac{5}{8}$	23.43	281.16	12	..	..	..	..
2 $\frac{3}{4}$	25.73	308.52	12	..	..	..	..
2 $\frac{7}{8}$	28.10	337.20	12	..	..	..	..
3	30.60	367.20	12	..	..	..	12
3 $\frac{1}{4}$	35.91	430.92	12	..	..	..	..
3 $\frac{1}{2}$	41.65	499.80	12	..	..	..	..
3 $\frac{3}{4}$	47.81	573.72	12	..	..	..	..
4	54.40	652.80	12	..	..	..	..
4 $\frac{1}{2}$	68.85	826.20	12	..	..	..	..
5	85.00	1020.00	12	..	..	..	..

**COLD DRAWN FLATS****AISI C1018—SAE 1018****MOLTRUP QUALITY**

Tolerance exact size to oversize

Identification color—Green.

Size in Inches	Weight per Ft. lbs.	Est. Wt. 12' Bar	Random Lengths Feet	Size in Inches	Weight per Ft. lbs.	Est. Wt. 12' Bar	Random Lengths Feet
16x 3 $\frac{1}{16}$	.080	.96	12	3 $\frac{1}{16}$ x 1 $\frac{1}{4}$	.159	1.91	12
1 $\frac{1}{4}$	.106	1.27	12	5 $\frac{1}{16}$	.199	2.39	12
5 $\frac{5}{16}$	.133	1.60	12	3 $\frac{3}{8}$	.239	2.87	12
3 $\frac{3}{8}$	.159	1.91	12	7 $\frac{7}{16}$	.279	3.35	12
7 $\frac{7}{16}$	.186	2.23	12	1 $\frac{1}{2}$	.319	3.83	12
1 $\frac{1}{2}$	.213	2.56	12	9 $\frac{9}{16}$	.359	4.31	12
9 $\frac{9}{16}$	.239	2.87	12	5 $\frac{5}{8}$	.398	4.78	12
5 $\frac{5}{8}$	.266	3.19	12	3 $\frac{3}{4}$	.478	5.74	12
11 $\frac{11}{16}$	.292	3.52	12	7 $\frac{7}{8}$	.558	6.70	12
3 $\frac{3}{4}$	.319	3.83	12	1	.638	7.66	12
7 $\frac{7}{8}$	.372	4.46	12	1 $\frac{1}{8}$	.717	8.60	12
1	.425	5.10	12	1 $\frac{1}{4}$	.797	9.56	12
1 $\frac{1}{8}$	.478	5.74	12	1 $\frac{3}{8}$	.877	10.52	12
1 $\frac{1}{4}$	.531	6.37	12	1 $\frac{1}{2}$	.956	11.47	12
1 $\frac{3}{8}$	.584	7.01	12	1 $\frac{3}{4}$	1.17	13.39	12
1 $\frac{1}{2}$	.638	7.66	12	1 $\frac{7}{8}$	1.20	14.34	12
1 $\frac{3}{4}$	.744	8.93	12	2	1.28	15.30	12
2	.850	10.20	12	2 $\frac{1}{4}$	1.43	17.21	12
2 $\frac{1}{4}$	.956	11.47	12	2 $\frac{1}{2}$	1.59	19.13	12
2 $\frac{1}{2}$	1.06	12.76	12	2 $\frac{3}{4}$	1.75	21.04	12
2 $\frac{3}{4}$	1.17	14.03	12	3	1.91	22.96	12
3	1.28	15.30	12	3 $\frac{1}{4}$	2.07	24.86	12
3 $\frac{1}{2}$	1.49	17.86	12	3 $\frac{1}{2}$	2.23	26.77	12
3 $\frac{3}{4}$	1.59	19.13	12	3 $\frac{3}{4}$	2.39	28.68	12
4	1.70	20.40	12	4	2.55	30.60	12
4 $\frac{1}{2}$	1.91	22.96	12	4 $\frac{1}{2}$	2.87	34.42	12
5	2.13	25.50	12	5	3.19	38.26	12
6	2.55	30.60	12	6	3.83	45.90	12

(Continued on following page)



COLD DRAWN FLATS

AISI C1018—SAE 1018

MOLTRUP QUALITY

Tolerance Exact Size to Oversize
Identification color—Green.

(Continued from preceding page)

Size in Inches	Weight per Ft. lbs.	Est. Wt. 12' Bar	Random Lengths Feet	Size in Inches	Weight per Ft. lbs.	Est. Wt. 12' Bar	Random Lengths Feet	
1/4 x 5/16	.266	3.19	12	5/16 x 7/16	.558	6.70	12	
3/8	.319	3.83	12	1/2	.638	7.66	12	
7/16	.372	4.46	12	9/16	.717	8.60	12	
1/2	.425	5.10	12	5/8	.797	9.56	12	
9/16	.478	5.74	12	11/16	.877	10.52	12	
5/8	.531	6.37	12	3/4	.956	11.47	12	
11/16	.584	7.01	12	7/8	1.155	13.39	12	
3/4	.638	7.66	12	1	1.275	15.30	12	
7/8	.744	8.93	12	1 1/8	1.434	17.21	12	
1	.850	10.20	12	1 1/4	1.594	19.13	12	
1 1/8	.956	11.47	12	1 3/8	1.753	21.04	12	
1 1/4	1.063	12.76	12	1 1/2	1.913	22.96	12	
1 3/8	1.169	14.03	12	1 5/8	2.072	24.86	12	
1 1/2	1.275	15.30	12	1 3/4	2.231	26.77	12	
1 5/8	1.381	16.57	12	1 7/8	2.391	28.69	12	
1 3/4	1.488	17.86	12	2	2.550	30.60	12	
1 7/8	1.594	19.13	12	2 1/4	2.869	34.43	12	
2	1.700	20.40	12	2 1/2	3.188	38.26	12	
2 1/4	1.913	22.96	12	2 3/4	3.506	42.07	12	
2 1/2	2.125	25.50	12	3	3.825	45.90	12	
2 3/4	2.338	28.06	12	3 1/4	4.144	49.73	12	
3	2.550	30.60	12	3 1/2	4.463	53.56	12	
3 1/4	2.763	33.12	12	3 3/4	4.781	57.37	12	
3 1/2	2.975	35.70	12	4	5.020	61.20	12	
4	3.400	40.80	12	4 1/2	5.738	68.86	12	
4 1/2	3.825	45.90	12	5	6.375	76.50	12	
4 3/4	4.038	48.46	12	5 1/2	7.013	84.16	12	
5	4.250	51.00	12	6	7.650	91.80	12	
5 1/2	4.675	56.10	12	8	10.200	122.40	12	
6	5.100	61.20	12	10	12.750	153.00	12	
8	6.800	81.60	12	12 . . .	15.300	183.60	12	
10	8.500	102.00	12	7/16 x 1/2	.744	8.93	12	
12 . . .	10.200	122.40	12	9/16	.837	10.04	12	
5/16 x 3/8	.398	4.78	12	5/8	.930	11.16	12	
	7/16	.465	5.58	12	3/4	1.116	13.39	12
	1/2	.531	6.37	12	7/8	1.302	15.62	12
	9/16	.598	7.18	12	1	1.488	17.86	12
	5/8	.664	7.97	12	1 1/8	1.673	20.08	12
	3/4	.797	9.56	12	1 1/4	1.859	22.31	12
	7/8	.930	11.16	12	1 1/2	2.231	26.77	12
	1	1.063	12.76	12	1 3/4	2.603	31.24	12
1 1/8	1.195	14.34	12	2	2.975	35.70	12	
1 1/4	1.328	15.94	12	2 1/4	3.347	40.16	12	
1 3/8	1.461	17.53	12	2 1/2	3.719	44.63	12	
1 1/2	1.594	19.13	12	2 3/4	4.091	49.09	12	
1 3/4	1.859	22.31	12	3	4.463	53.56	12	
2	2.125	22.50	12	3 1/2	5.206	62.47	12	
2 1/8	2.258	27.10	12	4	5.950	71.40	12	
2 1/4	2.391	28.69	12	4 1/2	6.694	80.33	12	
2 1/2	2.656	31.87	12	5	7.438	89.26	12	
2 3/4	2.922	35.06	12	6 . . .	8.925	107.10	12	
3	3.188	38.26	12	1/2 x 9/16	.956	11.47	12	
3 1/2	3.719	44.63	12	5/8	1.063	12.76	12	
4	4.250	51.00	12	11/16	1.169	14.03	12	
4 1/2	4.781	57.37	12	3/4	1.275	15.30	12	
5	5.313	63.76	12	13/16	1.381	16.58	12	
6	6.375	76.50	12	7/8	1.486	17.86	12	
12 . . .	12.75 . . .	153.00 . . .	12					

(Continued on following page)

ALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELSMUSIC
WIRE
SPRING
WIRE

LUMINUM

BRASS
COPPERWEIGHTS
DATA



COLD DRAWN FLATS



AISI C1018—SAE 1018

MOLTRUP QUALITY

Tolerance Exact Size to Oversize

Identification color—Green.

(Continued from preceding page)

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12' Bar	Random Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12' Bar	Random Lengths Feet	
1/2x1	1.70	20.40	12	5/8x5	10.63	127.50	12	
1 1/8	1.91	22.96	12	5 1/2	11.69	140.26	12	
1 1/4	2.13	25.50	12	6	12.75	153.00	12	
1 3/8	2.34	28.06	12	8	17.00	204.00	12	
1 1/2	2.55	30.60	12	10	21.25	255.00	12	
1 5/8	2.76	33.16	12	12	25.50	306.00	12	
1 3/4	2.98	35.70	12	1 1/16x 3/4	1.75	21.04	12	
2	3.40	40.80	12	7/8	2.05	24.54	12	
2 1/4	3.83	45.90	12	1	2.34	28.06	12	
2 1/2	4.25	51.00	12	1 1/8	2.63	31.56	12	
2 3/4	4.68	56.10	12	3/4x 7/8	2.23	26.77	12	
3	5.10	61.20	12	1	2.55	30.60	12	
3 1/4	5.53	61.30	12	1 1/8	2.87	34.43	12	
3 1/2	5.95	71.40	12	1 1/4	3.19	38.26	12	
3 3/4	6.38	76.58	12	1 3/8	3.51	42.07	12	
4	6.80	81.60	12	1 1/2	3.83	45.90	12	
4 1/4	7.23	86.76	12	1 5/8	4.14	49.73	12	
4 1/2	7.65	91.80	12	1 3/4	4.46	53.56	12	
4 3/4	8.08	96.96	12	2	5.10	61.20	12	
5	8.50	102.00	12	2 1/4	5.74	68.86	12	
5 1/2	9.35	112.20	12	2 1/2	6.38	76.50	12	
5 3/4	9.78	117.36	12	2 3/4	7.01	84.16	12	
6	10.20	122.40	12	3	7.65	91.80	12	
7	11.90	142.80	12	3 1/4	8.29	99.46	12	
8	13.60	163.20	12	3 1/2	8.93	107.10	12	
10	17.00	204.00	12	4	10.20	122.40	12	
12	20.40	244.80	12	4 1/2	11.48	137.70	12	
13/3	5/8x 5/8	1.20	14.34	12	5	12.75	153.00	12
	3/4	1.43	17.21	12	5 1/2	14.03	168.30	12
	7/8	1.67	20.08	12	6	15.30	183.60	12
7/16	1	1.91	22.96	12	8	20.40	244.80	12
	1 1/8	2.15	25.82	12	10	25.50	306.00	12
15/3	1 1/4	2.39	28.69	12	12	30.60	367.20	12
1/2	1 1/2	2.87	34.43	12	7/8x1	2.98	35.70	12
	1 3/4	3.35	40.16	12	1 1/8	3.35	40.16	12
	2	3.83	45.90	12	1 1/4	3.72	44.63	12
DETROIT 12	5/8x 11/16	1.46	17.53	12	1 3/8	4.09	49.09	12
Twinbro	3/4	1.59	19.13	12	1 1/2	4.46	53.56	12
Mail Box 148	13/16	1.73	20.72	12	1 3/4	5.21	62.47	12
13400 Mt.	7/8	1.86	22.31	12	2	5.95	71.40	12
	15/16	1.99	23.52	12	2 1/4	6.69	80.33	12
	1	2.13	25.50	12	2 1/2	7.44	89.26	12
	1 1/8	2.39	28.69	12	2 3/4	8.18	98.17	12
	1 1/4	2.66	31.87	12	3	8.93	107.10	12
	1 3/8	2.92	35.06	12	3 1/2	10.41	124.96	12
	1 1/2	3.19	38.20	12	4	11.90	142.80	12
	1 5/8	3.45	41.44	12	4 1/2	13.39	160.66	12
	1 3/4	3.72	44.63	12	5	14.88	178.50	12
	2	4.25	51.00	12	6	17.85	214.20	12
	2 1/4	4.78	57.37	12	1 x 1 1/8	3.83	45.90	12
	2 1/2	5.31	63.76	12	1 1/4	4.25	51.00	12
	2 3/4	5.84	70.13	12	1 3/8	4.68	56.10	12
	3	6.38	76.50	12	1 1/2	5.10	61.20	12
	3 1/4	6.91	82.87	12	1 5/8	5.53	66.30	12
	3 1/2	7.44	89.26	12	1 3/4	5.95	71.40	12
	4	8.50	102.00	12				
	4 1/2	9.56	114.76	12				

(Continued on following page)



COLD DRAWN FLATS



AISI C1018—SAE 1018

MOLTRUP QUALITY

Tolerance Exact Size to Oversize

Identification color—Green.

(Continued from preceding page)

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12' Bar	Random Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12' Bar	Random Lengths Feet
1 x2	6.80	81.60	12	1½x3	15.30	183.60	12
2¼	7.65	91.80	12	3½	17.85	214.20	12
2½	8.50	102.00	12	4	20.40	244.80	12
2¾	9.35	112.20	12	4½	22.95	275.40	12
3	10.20	122.40	12	5	25.50	306.00	12
3½	11.90	142.80	12	5½	28.05	336.60	12
4	13.60	163.20	12	6	30.60	367.20	12
4½	15.30	183.60	12	8	40.80	489.60	12
5	17.00	204.00	12	10	51.00	612.00	12
5½	18.70	224.40	12	12...	61.20	734.40	12
6	20.40	244.80	12	1¾x2	11.05	132.60	12
8	27.20	326.40	12	2½	13.81	165.72	12
10	34.00	408.00	12	3	16.58	198.90	12
12...	40.80	489.60	12	4...	22.10	265.20	12
1½x1¼	4.78	57.37	12	1¾x2	11.90	142.80	12
1¾	5.26	63.11	12	2¼	13.39	160.66	12
1½	5.74	68.86	12	2½	14.88	178.50	12
1⁹/₈	6.22	74.59	12	2¾	16.36	196.36	12
1¾	6.69	80.33	12	3	17.85	214.20	12
2	7.65	91.80	12	3½	20.83	249.90	12
2¼	8.61	103.27	12	4	23.80	285.60	12
2½	9.56	114.76	12	4½	26.78	321.30	12
3	11.48	137.70	12	5	29.75	357.00	12
4...	15.30...	184.60	12	6...	35.70	428.40	12
1¼x1¾	5.84	70.13	12	2 x2¼	15.30	183.60	12
1½	6.38	76.50	12	2½	17.00	204.00	12
1⁹/₈	6.91	82.87	12	2¾	18.70	224.40	12
1¾	7.44	89.26	12	3	20.40	244.80	12
1¾	7.97	95.63	12	3½	23.80	285.60	12
2	8.50	102.00	12	4	27.20	362.40	12
2¼	9.56	114.76	12	4½	30.60	367.20	12
2½	10.63	127.50	12	5	34.00	408.00	12
2¾	11.69	140.26	12	6	40.80	489.60	12
3	12.75	153.00	12	8	54.40	652.80	12
3¼	13.81	165.72	12	10	68.00	816.00	12
3½	14.88	178.50	12	12...	81.60	.979.20	12
4	17.00	204.00	12	2¼x2½	19.13	229.50	12
4½	19.39	229.50	12	3	22.95	275.40	12
5	21.25	255.00	12	3¼	24.86	298.36	12
5½	23.38	280.50	12	3½	26.78	321.30	12
6	25.50	306.00	12	4	30.60	367.20	12
8	34.00	408.00	12	4½	34.43	413.10	12
10	42.50	510.00	12	5	38.25	459.00	12
12...	51.00...	612.00	12	6...	45.90	550.80	12
1¾x1½	7.01	84.16	12	2½x2¾	23.38	280.56	12
2	9.35	112.20	12	3	25.50	306.00	12
2¾	9.93	119.21	12	3½	29.76	357.00	12
3...	14.03...	168.30	12	4	34.00	408.00	12
1½x1⁹/₈	8.29	99.46	12	4½	38.25	459.00	12
1¾	8.93	107.10	12	5	42.50	510.00	12
1¾	9.56	114.76	12	6...	51.00	612.00	12
2	10.20	122.40	12	3 x4	40.80	489.60	12
2¼	11.48	137.70	12	5	51.00	612.00	12
2½	12.75	153.00	12	6	61.20	734.40	12
2¾	14.03	168.30	12				

ALLOY
BARSSHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



HOT ROLLED ALLOY ROUNDS



AISI 4615-20

AISI 8620

A.S.T.M. Grain Size—5 to 8

Machine Straightened

1/8—

Regularly supplied in natural hot rolled condition. Can be annealed if required.

Chemical analysis, pages 281, 283 Physical properties, pages 292, 293.
Identification colors: 8620—Pink and White,
4615-20—Green and Yellow.

	Size in Inches	Weight per Ft. Lbs.	Stock Lengths Feet		Size in Inches	Weight per Ft. Lbs.	Stock Lengths Feet	
			4615-20	8620			4615-20	8620
1/4—	* $\frac{1}{2}$	.668	16	16	$3\frac{1}{2}$	32.71	10,20	10,20
	* $\frac{5}{8}$	1.043	16	16	$3\frac{5}{8}$	35.09	10,20	10,20
	* $\frac{3}{4}$	1.502	16	16	$3\frac{3}{4}$	37.55	10,20	10,20
	* $\frac{7}{8}$	2.045	16	16	4	42.73	10,20	10,20
5/16—	* 1	2.670	16	16	$4\frac{1}{4}$	48.23	10,20	10,20
	* $1\frac{1}{8}$	3.380	16	16	$4\frac{1}{2}$	54.08	10,20	10,20
11/32	* $1\frac{1}{4}$	4.172	16	16	$4\frac{3}{4}$	60.25	10,20	10,20
3/8—	* $1\frac{3}{8}$	5.049	16	16	5	66.76	10,20	10,20
	* $1\frac{7}{16}$	5.518	16	16	$5\frac{1}{4}$	73.60	10,20	10,20
13/32	* $1\frac{1}{2}$	6.008	16	16	$5\frac{1}{2}$	80.78	10,20	10,20
7/16—	$1\frac{5}{8}$	7.051	16	16	$5\frac{3}{4}$	88.29	10,20	10,20
	$1\frac{3}{4}$	8.178	16	16	6	96.13	10,20	10,20
15/32	$1\frac{7}{8}$	9.388	16	16	$6\frac{1}{4}$	104.31	10,20	10,20
1/2—	2	10.68	16	16	$6\frac{1}{2}$	112.82	10,20	10,20
	$2\frac{1}{8}$	12.06	16	16	$6\frac{3}{4}$	121.67	10,20	10,20
	$2\frac{1}{4}$	13.52	16	16	7	130.85	10,20	10,20
	$2\frac{3}{8}$	15.06	16	16	$7\frac{1}{4}$	140.36	..	10,20
	$2\frac{1}{2}$	16.69	16	16	$7\frac{1}{2}$	150.21	10,20	10,20
	$2\frac{5}{8}$	18.40	16	16	$7\frac{3}{4}$	160.39	10,20	10,20
	$2\frac{3}{4}$	20.19	16	16	8	170.90	10,20	10,20
	$2\frac{7}{8}$	22.07	16	16	$8\frac{1}{4}$	181.75	..	10,20
DETROIT 12, Twinbroo Mail Box 148 I 13400 Mt. E	3	24.03	20	20	$8\frac{1}{2}$	192.93	10,20	10,20
	$3\frac{1}{8}$	26.08	20	20	$8\frac{3}{4}$	204.45	10,20	..
	$3\frac{1}{4}$	28.21	20	20	9	216.30	10,20	10,20
	$3\frac{3}{8}$	30.42	..	20	$9\frac{1}{2}$	241.00	10,20	10,20

*These sizes are not machine straightened.

HOT ROLLED ALLOY ROUNDS

AISI 4140-42-4145 Annealed
Leaded AISI 4142-4145 Annealed

AISI 8640-42 As Rolled

AISI 4340 Annealed

A.S.T.M. Grain Size—5 to 8
Machine Straightened

Chemical analysis, pages 281, 283. Physical properties, pages 291-293.
Identification colors—4140-42 Green and Black

Leaded 4142-45 Yellow and White
8640-42 Pink & Yellow
4340 Purple and Aluminum

Size in Inches	Weight per Ft. Lbs.	Stock Lengths Feet			
		4140-42 4145	Leaded 4142- 4145	8640-42	4340
1/2	.668	16	..	16	..
5/8	1.043	16	..	16	..
3/4	1.502	16	..	16	..
7/8	2.045	16	..	16	..
1	2.670	16	16	16	..
1 1/8	3.380	16	16	16	..
1 1/4	4.172	16	16	16	..
1 3/8	5.049	16	16	16	..
1 7/16	5.518	..	..	16	..
1 1/2	6.008	16	16	16	..
1 5/8	7.051	16	16	16	..
1 3/4	8.178	16	16	16	..
1 7/8	9.388	16	16	16	..
2	10.68	16	16	16	..
2 1/8	12.06	16	16	16	..
2 1/4	13.52	16	16	16	..
2 3/8	15.06	16	16	16	..
2 1/2	16.69	16	16	16	..
2 5/8	18.40	16	16	16	..
2 3/4	20.19	16	16	16	..
2 7/8	22.07	16	..	16	..
3	24.03	20	20	20	..
3 1/8	26.08	20	..	..	..
3 1/4	28.21	20	20	20	..
3 3/8	30.42	20	..	20	..
3 1/2	32.71	10, 20	10, 20	10, 20	..
3 5/8	35.09	10, 20	10, 20	..	..
3 3/4	37.55	10, 20	10, 20	10, 20	..
3 7/8	40.10	10, 20	..	..	..
4	42.73	10, 20	10, 20	10, 20	..
4 1/8	45.44	10, 20	..	..	..
4 1/4	48.23	10, 20	10, 20	10, 20	..
4 1/2	54.08	10, 20	10, 20	10, 20	..
4 5/8	57.12	10, 20	..	..	..
4 3/4	60.25	10, 20	10, 20	10, 20	..
5	66.76	10, 20	10, 20	10, 20	..
5 1/4	73.60	10, 20	10, 20	10, 20	..
5 1/2	80.78	10, 20	10, 20	10, 20	..
5 3/4	88.29	10, 20	10, 20	10, 20	..
6	96.13	10, 20	10, 20	10, 20	..
6 1/4	104.31	10, 20	10, 20	..	10, 20
6 1/2	112.82	10, 20	10, 20	..	..
6 3/4	121.67	10, 20	10, 20	..	..
7	130.85	10, 20	10, 20	..	10, 20
7 1/4	140.36	10, 20	10, 20	..	..
7 1/2	150.21	10, 20	10, 20	..	..
7 3/4	160.39	10, 20	10, 20	..	..
8	170.90	10, 20	10, 20	..	10, 20
8 1/2	192.93	10, 20	10, 20	..	..
9	216.30	10, 20	10, 20	..	..
9 1/2	241.00	10, 20	10, 20	..	..

ALLOY
BARS

SHEETS
STRIP

STEEL
TUBING

WIRE
DRILL ROD

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA


**HOT ROLLED ALLOY
ROUNDS**

**AISI 4140-4145 Heat Treated
Leaded AISI 4142-4145 Heat Treated**

Oil Quenched—Tempered—Strain Relieved

Machine Straightened

A.S.T.M. Grain Size—5 to 8. Brinell 260-311

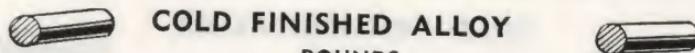
Chemical analysis, page 281.

Identification colors: 4140-45—Black and Red.

Leaded 4140-45—Black and White.

Size in Inches	Wt. per Foot in Lbs.	Stock Lengths Feet	
		4140-45 Heat Treated	Leaded 4142-45 Heat Treated
3/4	1.502	16	16
7/8	2.045	16	16
1	2.670	16	16
1 1/8	3.380	16	16
1 1/4	4.172	16	16
1 3/8	5.049	16	16
1 1/2	6.008	16	16
1 5/8	7.051	16	16
1 3/4	8.178	16	16
1 7/8	9.388	16	16
2	10.68	16	16
2 1/8	12.06	16	16
2 1/4	13.52	16	16
2 3/8	15.06	16	16
2 1/2	16.69	16	16
2 5/8	18.40	16	16
2 3/4	20.19	16	16
2 7/8	22.07	16	16
3	24.03	20	20
3 1/8	26.08	20	20
3 1/4	28.21	20	20
3 3/8	30.42	20	20
3 1/2	32.71	10, 20	10, 20
3 5/8	35.09	10, 20	10, 20
3 3/4	37.55	10, 20	10, 20
3 7/8	40.10	10, 20	10, 20
4	42.73	10, 20	10, 20
4 1/8	45.44	10, 20	10, 20
4 1/4	48.23	10, 20	10, 20
4 3/8	51.11	..	10, 20
4 1/2	54.08	10, 20	10, 20
4 5/8	57.12	10, 20	10, 20
4 3/4	60.25	10, 20	10, 20
4 7/8	63.46	..	10, 20
5	66.76	10, 20	10, 20
5 1/4	73.60	10, 20	10, 20
5 3/8	77.15	..	10, 20
5 1/2	80.78	10, 20	10, 20
5 3/4	88.29	10, 20	10, 20
6	96.13	10, 20	10, 20
6 1/4	104.31	..	10, 20
6 1/2	112.82	..	10, 20
6 3/4	121.67	..	10, 20
7	130.85	..	10, 20
7 1/4	140.36	..	10, 20
7 1/2	150.21	..	10, 20
7 3/4	160.39	..	10, 20
8	170.90	..	10, 20
8 1/4	181.75	..	10, 20
8 1/2	192.93	..	10, 20
9	216.30	..	10, 20
9 1/2	241.00	..	10, 20

 DETROIT 1
 Twinb.
 Mail Box 14
 13400 Mt

**COLD FINISHED ALLOY****ROUNDS****AISI 8620****Leaded AISI 8620****AISI 4615-20**

A.S.T.M. Grain Size—5 to 8
Sizes 2 $\frac{7}{8}$ " and under are Cold Drawn
Sizes over 2 $\frac{7}{8}$ " are Turned and Polished

Chemical analysis, pages 281, 283.

Physical properties, pages 292, 293.

Identification colors—8617-20 Pink and White; Leaded 8620 Green and White; 4615-20 Green and Yellow.

Size in Inches	Weight per Ft. Lbs.	Random Lengths Feet		
		8620	Leaded 8620	4615-20
$\frac{1}{4}$	.167	12	..	..
$\frac{5}{16}$	.261	12	..	12
$\frac{3}{8}$	.376	12	12	12
$\frac{7}{16}$	.511	12	12	12
$\frac{1}{2}$	.668	12	12	12
$\frac{9}{16}$	.845	12	12	12
$\frac{5}{8}$	1.043	12	12	12
$1\frac{1}{16}$	1.262	12	12	12
$\frac{3}{4}$	1.502	12	12	12
$1\frac{3}{16}$	1.763	12	12	12
$\frac{7}{8}$	2.045	12	12	12
$1\frac{5}{16}$	2.347	12	12	12
1	2.670	12	12	12
$1\frac{1}{16}$	3.015	12	12	12
$1\frac{1}{8}$	3.380	12	12	12
$1\frac{3}{16}$	3.766	12	12	12
$1\frac{1}{4}$	4.172	12	12	12
$1\frac{5}{16}$	4.600	12	12	12
$1\frac{3}{8}$	5.049	12	12	12
$1\frac{7}{16}$	5.518	12	12	12
$1\frac{1}{2}$	6.008	12	12	12
$1\frac{9}{16}$	6.519	12	12	12
$1\frac{5}{8}$	7.051	12	12	12
$1\frac{11}{16}$	7.604	12	..	..
$1\frac{3}{4}$	8.178	12	12	12
$1\frac{7}{8}$	9.388	12	12	12
$1\frac{15}{16}$	10.04	12	12	..
2	10.68	12	12	12
$2\frac{1}{16}$	11.36	12	..	12
$2\frac{1}{8}$	12.06	12	12	12
$2\frac{1}{4}$	13.52	12	12	12
$2\frac{3}{8}$	15.06	12	12	12
$2\frac{1}{2}$	16.69	12	12	12
$2\frac{5}{8}$	18.40	12	12	12
$2\frac{3}{4}$	20.19	12	12	12
$2\frac{7}{8}$	22.07	12	12	12
3	24.03	12	12	12
$3\frac{1}{4}$	28.21	12	12	..
$3\frac{1}{2}$	32.71	12	12	..
$3\frac{3}{4}$	37.55	12	..	..
4	42.73	12	12	..
$4\frac{1}{4}$	48.23	12	..	..
$4\frac{1}{2}$	54.08	12	12	..
$4\frac{3}{4}$	60.25	12	..	..
5	66.76	12	..	..



COLD FINISHED ALLOY**ROUNDS****AISI 4140-42 Annealed****Leaded AISI 4140-42 Annealed****AISI 8642-8742 Annealed**

A.S.T.M. Grain Size—5 to 8

Sizes $2\frac{7}{8}$ " and under are Cold DrawnSizes over $2\frac{7}{8}$ " are Turned and Polished

Chemical analysis, pages 281, 283.

Physical properties, pages 291, 293.

Identification colors: AISI 4140-42—Green and Black;
Leaded 4140-42—Yellow and White;
AISI 8642-8742—Pink and Yellow.

Size Inches	Weight Ft. Lbs.	Random Lengths Feet		
		4140-42	Leaded 4140-42	8642 8742
$\frac{1}{4}$	.167	12	12	12
$\frac{5}{16}$	.261	12	12	12
$\frac{3}{8}$	.376	12	12	12
$\frac{7}{16}$	.511	12	12	12
$\frac{1}{2}$	.668	12	12	12
$\frac{9}{16}$	.845	12	12	12
$\frac{5}{8}$	1.043	12	12	12
$\frac{11}{16}$	1.262	12	12	12
$\frac{3}{4}$	1.502	12	12	12
$\frac{13}{16}$	1.763	12	12	12
$\frac{7}{8}$	2.045	12	12	12
$\frac{15}{16}$	2.347	12	12	12
1	2.670	12	12	12
$1\frac{1}{16}$	3.015	12	12	12
$1\frac{1}{8}$	3.380	12	12	12
$1\frac{3}{16}$	3.766	12	12	12
$1\frac{1}{4}$	4.172	12	12	12
$1\frac{5}{16}$	4.600	12	12	12
$1\frac{3}{8}$	5.049	12	12	12
$1\frac{7}{16}$	5.518	12	12	12
$1\frac{1}{2}$	6.008	12	12	12
$1\frac{9}{16}$	6.519	12	12	12
$1\frac{5}{8}$	7.051	12	12	12
$1\frac{11}{16}$	7.600	..	12	..
$1\frac{3}{4}$	8.178	12	12	12
$1\frac{7}{8}$	9.388	12	12	12
$1\frac{15}{16}$	10.024	12	12	..
2	10.68	12	12	12
$2\frac{1}{8}$	12.06	12	12	12
$2\frac{1}{4}$	13.52	12	12	12
$2\frac{3}{8}$	15.06	12	12	12
$2\frac{7}{16}$	15.87	12	12	..
$2\frac{1}{2}$	16.69	12	12	12
$2\frac{9}{16}$	17.53	12	..	12
$2\frac{5}{8}$	18.40	12	12	12
$2\frac{3}{4}$	20.19	12	12	12
$2\frac{7}{8}$	22.07	12	12	12
3	24.03	12	12	12
$3\frac{1}{4}$	28.21	12	12	12
$3\frac{1}{2}$	32.71	12	12	12
$3\frac{3}{4}$	37.55	12	12	12
4	42.73	12	12	12
$4\frac{1}{4}$	48.23	12	12	12
$4\frac{1}{2}$	54.08	12	12	12
$4\frac{3}{4}$	60.25	12	..	..
5	66.76	12	..	..

DETROIT 12
Twinbro
Mail Box 148
13400 Mt. E

COLD FINISHED ALLOY**ROUNDS****AISI 4142 Heat Treated****Leaded AISI 4142 Heat Treated**

Oil Quenched—Tempered—Cold Drawn—Strain Relieved

A.S.T.M. Grain Size—5 to 8

Sizes $2\frac{7}{8}$ " and under are Cold DrawnSizes over $2\frac{7}{8}$ " are Turned and Polished

Chemical analysis, page 281.

Physical properties, page 291.

Identification colors: 4142 H.T.—Black and Red;
Leaded 4142 H.T.—Black and White.

Size in Inches	Weight per Ft. Lbs.	Random Lengths Feet	
		4142 Heat Treated	Leaded 4142 Heat Treated
$\frac{1}{4}$	.167	12	12
$\frac{3}{8}$	.376	12	12
$\frac{7}{16}$	.511	12	12
$\frac{1}{2}$	.668	12	12
$\frac{9}{16}$	.845	12	12
$\frac{5}{8}$	1.043	12	12
$\frac{11}{16}$	1.262	12	..
$\frac{3}{4}$	1.502	12	12
$\frac{13}{16}$	1.763	12	12
$\frac{7}{8}$	2.045	12	12
$1\frac{5}{16}$	2.347	12	12
1	2.670	12	12
$1\frac{1}{16}$	3.015	12	12
$1\frac{1}{8}$	3.380	12	12
$1\frac{3}{16}$	3.766	12	..
$1\frac{1}{4}$	4.172	12	12
$1\frac{3}{8}$	5.049	12	12
$1\frac{7}{16}$	5.518	12	12
$1\frac{1}{2}$	6.008	12	12
$1\frac{9}{16}$	6.519	12	12
$1\frac{5}{8}$	7.051	12	12
$1\frac{3}{4}$	8.178	12	12
$1\frac{7}{8}$	9.388	12	12
$1\frac{15}{16}$	10.024	12	12
2	10.68	12	12
$2\frac{1}{8}$	12.06	12	12
$2\frac{1}{4}$	13.52	12	12
$2\frac{3}{8}$	15.06	12	12
$2\frac{1}{2}$	16.69	12	12
$2\frac{5}{8}$	18.40	12	..
$2\frac{3}{4}$	20.19	12	12
$2\frac{15}{16}$	23.04	12	12
3	24.03	12	12
$3\frac{1}{4}$	28.21	12	..
$3\frac{1}{2}$	32.71	12	..
$3\frac{3}{4}$	37.55	12	..
4	42.73	12	..
5	66.76	12	..

SHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



COLD DRAWN ALLOY SQUARES



AISI 4140 Annealed

A.S.T.M. Grain Size—5 to 8

Chemical analysis, page 281.

Identification colors—Green and Black.

Size in Inches	Weight per Foot Lbs.	Random Lengths Feet	Size in Inches	Weight per Foot Lbs.	Random Lengths Feet
$\frac{1}{4}$	.213	12	1	3.40	12
$\frac{3}{8}$	.478	12	$1\frac{1}{8}$	4.30	12
$\frac{7}{16}$	.651	12	$1\frac{1}{4}$	5.31	12
$\frac{1}{2}$	.851	12	$1\frac{3}{8}$	6.43	12
$\frac{9}{16}$	1.08	12	$1\frac{1}{2}$	7.65	12
$\frac{5}{8}$	1.33	12	$1\frac{3}{4}$	10.42	12
$1\frac{1}{16}$	1.61	12	2	13.60	12
$\frac{7}{8}$	2.60	12			



COLD DRAWN ALLOY HEXAGONS



AISI 4142 Annealed

Leaded AISI 4142 Annealed

A.S.T.M. Grain Size—5 to 8

Chemical analysis, page 281.

Identification colors: AISI 4142—Green and Black;
Leaded 4142—Yellow and White.

Size in Inches	Weight per Foot Lbs.	Random Lengths Feet		Size in Inches	Weight per Foot Lbs.	Random Lengths Feet	
		4142	Leaded 4142			4142	Leaded 4142
$\frac{1}{16}$	.564	12	..	$1\frac{1}{4}$	4.601	12	12
$\frac{1}{2}$	.736	12	..	$1\frac{3}{8}$	5.567	12	..
$\frac{9}{16}$	.932	12	..	$1\frac{7}{16}$	6.085	12	12
$\frac{5}{8}$	1.150	12	12	$1\frac{1}{2}$	6.625	12	..
$\frac{3}{4}$	1.656	12	12	$1\frac{5}{8}$	7.78	12	..
$1\frac{3}{16}$	1.944	12	..	$1\frac{3}{4}$	9.02	12	..
$\frac{7}{8}$	2.254	12	12	$1\frac{7}{8}$	10.36	12	..
$1\frac{5}{16}$	2.588	12	12	2	11.78	12	..
1	2.945	12	12	$2\frac{1}{4}$	14.91	12	..
$1\frac{1}{16}$	3.324	12	..	$2\frac{1}{2}$	18.40	12	..
$1\frac{1}{8}$	3.727	12	12	3	26.50	12	..

DETROIT 12
Twinbro
Mail Box 148
13400 Mt.

HOT ROLLED SHEET STEEL

Commercial Quality Prime Open Hearth Low Carbon
(Manufacturers Standard Gage)

Gage & Size in Inches	Est. Wt. per Sheet	Gage & Size in Inches	Est. Wt. per Sheet
No. 7 ($\frac{3}{16}$") Wt. per Sq. Ft. 7.50		No. 7 ($\frac{3}{16}$") Wt. per Sq. Ft. 7.50	
14 x 96	70.0	60 x 96	300.0
14 x 120	87.5	60 x 120	375.0
14 x 144	105.0	69 x 144	450.0
14 x 240	175.0	60 x 240	750.0
16 x 96	80.0	72 x 96	336.0
16 x 120	100.0	72 x 120	420.0
16 x 144	120.0	72 x 144	504.0
16 x 240	200.0	72 x 240	840.0
18 x 96	90.0	Over 72" See Plates	
18 x 120	112.5		
18 x 144	135.0		
18 x 240	225.0	No. 8 (.1644") Wt. per Sq. Ft. 6.875	
20 x 96	104.0	30 x 96	137.5
20 x 120	130.0	30 x 120	171.9
20 x 144	156.0	30 x 144	206.3
20 x 240	260.0	30 x 192	275.0
24 x 96	120.0	36 x 96	165.0
24 x 120	150.0	36 x 120	206.3
24 x 144	180.0	36 x 144	247.5
24 x 240	300.0	36 x 192	330.0
28 x 96	139.9	42 x 96	192.5
28 x 120	174.9	42 x 120	240.6
28 x 144	209.9	42 x 144	288.8
28 x 240	349.8	42 x 192	385.0
30 x 96	150.0	48 x 96	220.0
30 x 120	187.5	48 x 120	275.0
30 x 144	225.0	48 x 144	333.0
30 x 240	375.0	48 x 192	440.0
36 x 96	180.0	54 x 96	247.5
36 x 120	225.0	54 x 120	309.4
36 x 144	270.0	54 x 144	371.3
36 x 240	450.0	54 x 192	495.0
42 x 96	210.0	60 x 96	275.0
42 x 120	262.5	60 x 120	343.8
42 x 144	315.0	60 x 144	412.5
42 x 240	525.0	60 x 192	550.0
48 x 96	240.0	72 x 96	330.0
48 x 120	300.0	72 x 120	412.5
48 x 144	360.0	72 x 144	495.0
48 x 240	600.0	72 x 192	660.0

(Continued on following page)

SHEETS
STRIPSTEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

HOT ROLLED SHEET STEEL

Commercial Quality Prime Open Hearth Low Carbon

(Manufacturers Standard Gage)

(Continued from preceding page)

Gage & Size in Inches	Est. Wt. per Sheet	Gage & Size in Inches	Est. Wt. per Sheet		
No. 10 (.1345") Wt. per Sq. Ft. 5.625			No. 11 (.1196") Wt. per Sq. Ft. 5.00		
24 x 96	90.0	48 x 96	160.0		
24 x 120	112.5	48 x 120	200.0		
26 x 96	97.5	48 x 144	240.0		
26 x 120	121.9	54 x 144	270.0		
28 x 96	105.0	60 x 96	200.0		
28 x 120	131.2	60 x 120	250.0		
30 x 96	112.5	60 x 144	300.0		
30 x 120	140.6	72 x 120	300.0		
36 x 96	135.0	72 x 144	360.0		
36 x 108	151.9	72 x 192	480.0		
36 x 120	168.8				
36 x 144	202.5				
40 x 96	150.0	No. 12 (.1046") Wt. per Sq. Ft. 4.375			
40 x 120	187.5	24 x 96	70.0		
42 x 96	157.5	24 x 120	87.5		
42 x 120	196.9	28 x 96	81.7		
42 x 144	236.3	28 x 120	102.1		
48 x 96	180.0	30 x 96	87.5		
48 x 120	225.0	30 x 120	109.4		
48 x 144	270.0	36 x 96	105.0		
54 x 96	202.5	36 x 120	131.3		
54 x 120	253.1	36 x 144	157.5		
60 x 96	225.0	40 x 96	116.7		
60 x 120	281.3	40 x 120	145.8		
60 x 144	337.5	42 x 96	122.5		
72 x 96	270.0	42 x 120	153.1		
72 x 120	337.5	42 x 144	183.8		
72 x 144	405.0	48 x 96	140.0		
72 x 192	540.0	48 x 120	175.0		
		48 x 144	210.0		
		48 x 156	227.5		
No. 11 (.1196") Wt. per Sq. Ft. 5.00					
24 x 120	100.0	54 x 96	157.5		
24 x 144	120.0	54 x 120	196.9		
30 x 120	125.0	54 x 192	315.0		
30 x 144	150.0	60 x 96	175.0		
36 x 96	120.0	60 x 120	218.8		
36 x 120	150.0	60 x 144	262.5		
36 x 144	180.0	60 x 168	306.3		
42 x 96	140.0	72 x 96	210.0		
42 x 120	175.0	72 x 120	262.5		
42 x 144	210.0	72 x 144	315.0		
		72 x 192	420.0		

(Continued on following page)

d e

1/8—

1/4—

3/8—

13/

7/16—

15/

1/2—

DETROIT 1
Twinbi
Mail Box 14
13400 Mt

HOT ROLLED SHEET STEEL

Commercial Quality Prime Open Hearth Low Carbon
(Manufacturers Standard Gage)

(Continued from preceding page)

Gage & Size in Inches	Est. Wt. Per Sheet	Gage & Size in Inches	Est. Wt. Per Sheet
No. 14 (.0747")		No. 16 (.0598")	
Wt. per Sq. Ft. 3.125			Wt. per Sq. Ft. 2.50
24 x 96	50.0	28 x 96	46.7
24 x 120	62.5	28 x 120	58.3
26 x 96	54.2	30 x 96	50.0
26 x 120	67.7	30 x 120	62.5
28 x 96	58.3	36 x 96	60.0
28 x 120	72.9	36 x 120	75.0
30 x 96	62.5	36 x 144	90.0
30 x 120	78.1	40 x 96	66.7
30 x 144	93.8	40 x 120	83.3
36 x 96	75.0	42 x 96	70.0
36 x 120	93.8	42 x 120	87.5
36 x 144	112.5	42 x 144	105.0
40 x 96	83.3	48 x 96	80.0
40 x 120	104.2	48 x 120	100.0
42 x 96	87.5	48 x 144	120.0
42 x 120	109.4	48 x 156	130.0
42 x 144	131.3	54 x 96	90.0
48 x 96	100.0	54 x 120	112.5
48 x 120	125.0	54 x 156	146.3
48 x 144	150.0	60 x 96	100.0
48 x 156	162.5	60 x 120	125.0
54 x 96	112.5	60 x 144	150.0
54 x 120	140.6	60 x 168	175.0
54 x 156	182.8	No. 18 (.0478")	
60 x 96	125.0	Wt. per Sq. Ft. 2.00	
60 x 120	156.3	24 x 96	32.0
60 x 144	187.5	24 x 120	40.0
60 x 192	250.0	26 x 96	34.7
72 x 96	150.0	26 x 120	43.3
72 x 120	187.5	28 x 96	37.3
72 x 144	225.0	28 x 120	46.7
No. 16 (.0598")		30 x 96	40.0
Wt. per Sq. Ft. 2.50		30 x 120	50.0
24 x 96	40.0	36 x 96	48.0
24 x 120	50.0	36 x 120	60.0
26 x 96	43.3	42 x 96	56.0
26 x 120	54.2	42 x 120	70.0
		48 x 96	64.0
		48 x 120	80.0
		48 x 144	96.0

STEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

**PICKLED AND OILED SHEETS
HOT ROLLED**

Low Carbon Steel

PRIME QUALITY—OPEN HEARTH

(Manufacturers Standard Gage)

Gage & Size in Inches	Est. Wt. per Sheet	Gage & Size in Inches	Est. Wt. per Sheet
No. 7 (.316") Weight per Sq. Ft. 7.50			No. 13 (.0897") Weight per Sq. Ft. 3.75
30 x 96	150.0	30 x 96	
36 x 96	180.0	36 x 96	
36 x 120	225.0	36 x 120	
48 x 96	240.0	48 x 120	
48 x 120	300.0		
48 x 144	360.0		
No. 9 (.1495") Weight per Sq. Ft. 6.25			No. 14 (.0747") Weight per Sq. Ft. 3.125
36 x 120	187.5	30 x 96	
48 x 120	250.0	36 x 120	
		48 x 96	
		48 x 120	
		48 x 144	
No. 10 (.1345") Weight per Sq. Ft. 5.625			No. 16 (.0598") Weight per Sq. Ft. 2.50
36 x 96	135.0	24 x 96	
36 x 120	168.8	30 x 96	
48 x 120	225.0	30 x 120	
48 x 144	270.0	36 x 96	
		36 x 120	
		42 x 96	
		48 x 96	
No. 11 (.1196") Weight per Sq. Ft. 5.00			No. 18 (.0478") Weight per Sq. Ft. 2.00
30 x 96	100.0	48 x 120	
36 x 96	120.0	48 x 144	
36 x 120	150.0	48 x 120	
48 x 120	200.0	48 x 144	
48 x 144	240.0		
No. 12 (.1046") Weight per Sq. Ft. 4.375			No. 18 (.0478") Weight per Sq. Ft. 2.00
30 x 96	87.5	24 x 96	
36 x 96	105.0	30 x 96	
36 x 120	131.3	36 x 96	
48 x 96	140.0	36 x 120	
48 x 120	175.0	48 x 96	
		48 x 120	
		48 x 120	

DETROIT 12
Twinbro
Mail Box 148
13400 Mt.

COPPER BEARING SHEETS**HOT ROLLED STEEL**

Low Carbon Steel

(Manufacturers Standard Gage)

Gage & Size in Inches	Est. Wt. per Sheet	Gage & Size in Inches	Est. Wt. per Sheet
No. 7 ($\frac{3}{16}$ "")		No. 12 (.1046")	
Wt. per Sq. Ft. 7.50		Wt. per Sq. Ft. 4.375	
30 x 192	300.0	60 x 96	175.0
36 x 192	360.0	60 x 120	218.8
42 x 192	420.0		
48 x 192	480.0		
No. 10 (.1345")		No. 14 (.0747")	
Wt. per Sq. Ft. 5.625		Wt. per Sq. Ft. 3.125	
24 x 96	90.0	24 x 96	50.0
24 x 120	112.5	24 x 120	62.5
30 x 96	112.5	30 x 96	62.5
30 x 120	140.6	30 x 120	78.1
36 x 96	135.0	36 x 96	75.0
36 x 120	168.8	36 x 120	93.8
42 x 96	157.5	42 x 96	87.5
42 x 120	196.9	42 x 120	109.4
48 x 96	180.0	48 x 96	100.0
48 x 120	225.0	48 x 120	125.0
54 x 96	202.5	54 x 96	112.5
54 x 120	253.1	54 x 120	140.6
60 x 96	225.0	60 x 96	125.0
60 x 120	281.3	60 x 120	156.3
72 x 120	337.5		
No. 12 (.1046")		No. 16 (.0598")	
Wt. per Sq. Ft. 4.375		Wt. per Sq. Ft. 2.50	
24 x 96	70.0	24 x 96	40.0
24 x 120	87.5	24 x 120	50.0
30 x 96	87.5	30 x 96	50.0
30 x 120	109.4	30 x 120	62.5
36 x 96	105.0	36 x 96	60.0
36 x 120	131.3	36 x 120	75.0
42 x 96	122.5	42 x 96	70.0
42 x 120	153.1	42 x 120	87.5
48 x 96	140.0	48 x 96	80.0
48 x 120	175.0	48 x 120	100.0
54 x 96	157.5	54 x 96	90.0
54 x 120	196.9	54 x 120	112.5
		60 x 96	100.0
		60 x 120	125.0

All 7 gage ($3/16$ ") stock widths cut to 8', 10' and 12' lengths without charge.

G

STEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

HIGH CARBON SHEETS

HOT ROLLED STEEL

PRIME QUALITY — OPEN HEARTH

.40 to .50 Carbon

(Manufacturers Standard Gage)

Gage & Size in Inches	Weight per Sheet	Gage & Size in Inches	Weight per Sheet
No. 7 ($\frac{3}{16}$ ") Wt. per Sq. Ft. 7.50		No. 10 (.1345") Wt. per Sq. Ft. 5.625	
*24 x 192	240.0	72 x 96	270.0
*30 x 192	300.0	72 x 120	337.5
*36 x 192	360.0	72 x 144	405.0
*42 x 192	420.0	72 x 192	540.0
*48 x 192	480.0		
*60 x 192	600.0		
No. 10 (.1345") Wt. per Sq. Ft. 5.625		No. 12 (.1046") Wt. per Sq. Ft. 4.375	
24 x 96	90.0	24 x 120	87.5
24 x 120	112.5	30 x 96	87.5
30 x 96	112.5	36 x 96	109.4
30 x 120	140.6	36 x 120	105.0
30 x 144	168.8	42 x 120	131.3
36 x 96	135.0	48 x 96	153.1
36 x 120	168.8	48 x 120	140.0
36 x 144	202.5	60 x 96	175.0
36 x 192	270.0	60 x 120	175.0
42 x 96	157.5	60 x 144	218.8
42 x 120	196.9	60 x 192	262.5
42 x 144	236.3	72 x 96	350.0
48 x 96	180.0	72 x 120	210.0
48 x 120	225.0	72 x 144	262.5
48 x 144	270.0	72 x 192	420.0
48 x 192	360.0	No. 16 (.0598") Wt. per Sq. Ft. 2.50	
60 x 96	225.0	24 x 120	50.0
60 x 120	281.3	36 x 108	67.5
60 x 144	337.5	48 x 120	100.0

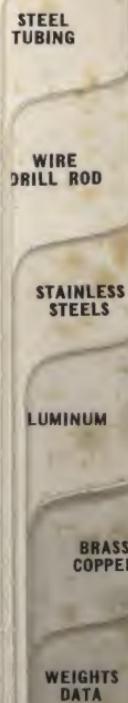
*All 7 gages ($\frac{3}{16}$ ") stock widths cut to 8', 10' and 12' lengths without charge.

High Carbon plates, page 25.

DETROIT 1
Twinb
Mail Box 14
13400 Mt

COLD ROLLED STEEL SHEETS**COMMERCIAL QUALITY OILED**

Std. Gage & Size Inches	Est. Wt. per Sheet	Std. Gage & Size Inches	Est. Wt. per Sheet
No. 7 ($\frac{3}{16}$ ")-7.50 #Sq. Ft.		No. 16 (.0598")-2.50 #Sq. Ft.	
24 x 96	120.0	48 x 144	120.0
36 x 96	180.0	72 x 120	150.0
36 x 120	225.0	72 x 144	180.0
		72 x 168	210.0
No. 9 (.1494")-6.25 #Sq. Ft.		No. 17 (.0538")-2.25 #Sq. Ft.	
24 x 96	100.0	24 x 96	36.0
36 x 120	187.5		
No. 10 (.1345")-5.625# Sq. Ft.		No. 18 (.0478")-2.00 #Sq. Ft.	
24 x 96	90.0	24 x 96	32.0
30 x 96	112.5	30 x 96	40.0
36 x 96	135.0	36 x 96	48.0
36 x 120	168.8	36 x 120	60.0
48 x 120	225.0	48 x 96	64.0
48 x 144	270.0	48 x 120	80.0
No. 11 (.1196")-5.00 #Sq. Ft.		No. 19 (.0418")-1.75 #Sq. Ft.	
24 x 96	80.0	24 x 96	28.0
30 x 96	100.0	30 x 96	35.0
36 x 96	120.0	36 x 96	42.0
36 x 120	150.0	36 x 120	52.5
48 x 96	160.0		
48 x 120	200.0		
No. 12. (.1046")-4.375 #Sq. Ft.		No. 20 (.0359")-1.50 #Sq. Ft.	
24 x 96	70.0	24 x 96	24.0
30 x 96	87.5	30 x 96	30.0
36 x 96	105.0	36 x 96	36.0
36 x 120	131.3	36 x 120	45.0
48 x 96	140.0	48 x 96	48.0
48 x 120	175.0	48 x 120	60.0
		48 x 144	72.0
(.109")-4.447 #Sq. Ft.		No. 21 (.0329")-1.375 #Sq. Ft.	
36 x 120	133.4	24 x 96	22.0
No. 13 (.0897")-3.75 #Sq. Ft.		No. 22 (.0299")-1.25 #Sq. Ft.	
24 x 96	60.0	24 x 96	20.0
30 x 96	75.0	30 x 96	25.0
36 x 96	90.0	36 x 96	30.0
36 x 120	112.5	36 x 120	37.5
		48 x 96	40.0
		48 x 120	50.0
No. 14 (.0747")-3.125 #Sq. Ft.		No. 23 (.0269")-1.125 #Sq. Ft.	
24 x 96	50.0	24 x 96	18.0
30 x 96	62.5		
30 x 120	78.1		
36 x 96	75.0		
36 x 120	93.8		
48 x 120	125.0		
48 x 144	150.0		
No. 15 (.0673")-2.812 #Sq. Ft.		No. 25 (.0209")-8.75 #Sq. Ft.	
24 x 96	45.0	36 x 96	21.5
30 x 96	56.2		
36 x 96	67.5		
No. 16 (.0598")-2.50 #Sq. Ft.		No. 26 (.0179")-.75 #Sq. Ft.	
24 x 96	40.0	24 x 96	12.0
30 x 96	50.0	30 x 96	15.0
36 x 96	60.0	36 x 96	18.0
36 x 120	75.0	36 x 120	22.5
42 x 120	87.5		
48 x 96	80.0		
48 x 120	100.0		



COLD ROLLED STEEL SHEETS**STRETCHER LEVELED OILED**

Suitable for panels, metal furniture, and purposes requiring a perfectly flat sheet. Smooth finish intended for enameling, lacquering.

Mfrs. Standard Gage and Size Inches	Est. Weight per Sheet	Mfrs. Standard Gage and Size Inches	Est. Weight per Sheet
No. 10 (.1345") Wt. per Sq. Ft. 5.625		No. 18 (.0478") Wt. per Sq. Ft. 2.00	
36 x 96	135.0	36 x 144	72.0
36 x 120	168.8	42 x 144	84.0
48 x 96	180.0	48 x 96	64.0
48 x 120	225.0	48 x 120	80.0
48 x 144	270.0	48 x 144	96.0
		54 x 156	117.0
No. 11 (.1196") Wt. per Sq. Ft. 5.00		No. 20 (.0359") Wt. per Sq. Ft. 1.50	
36 x 96	120.0	30 x 96	30.0
36 x 120	150.0	30 x 120	37.5
48 x 120	200.0	36 x 96	36.0
60 x 144	300.0	36 x 120	45.0
		36 x 144	54.0
No. 12 (.1046") Wt. per Sq. Ft. 4.375		42 x 96	42.0
36 x 96	105.0	42 x 120	52.5
36 x 120	131.3	42 x 144	63.0
42 x 120	153.1	48 x 96	48.0
48 x 120	175.0	48 x 120	60.0
		48 x 144	72.0
No. 14 (.0747") Wt. per Sq. Ft. 3.125		48 x 156	78.0
30 x 96	62.5	No. 22 (.0299") Wt. per Sq. Ft. 1.25	
30 x 120	78.1	30 x 96	25.0
36 x 96	75.0	30 x 120	31.3
36 x 120	93.8	36 x 96	30.0
48 x 120	125.0	36 x 120	37.5
48 x 144	150.0	36 x 144	45.0
60 x 120	156.3	42 x 144	52.5
		48 x 96	40.0
No. 16 (.0598") Wt. per Sq. Ft. 2.50		48 x 120	50.0
30 x 96	50.0	48 x 144	60.0
30 x 120	62.5	No. 24 (.0239") Wt. per Sq. Ft. 1.00	
36 x 96	60.0	30 x 96	20.0
36 x 120	75.0	30 x 120	25.0
36 x 144	90.0	36 x 96	24.0
48 x 120	100.0	36 x 120	30.0
48 x 144	120.0	No. 26 (.0179") Wt. per Sq. Ft. .75	
54 x 120	112.5	30 x 96	15.0
60 x 144	150.0	30 x 120	18.0
72 x 144	180.0	36 x 96	
No. 18 (.0478") Wt. per Sq. Ft. 2.00		36 x 120	
30 x 96	40.0		
30 x 120	50.0		
36 x 96	48.0		
36 x 120	60.0		

DETROIT 12

Twinbro
Mail Box 148
13400 Mt. I

COLD ROLLED STEEL SHEETS**DRAWING QUALITY OILED****14 ga. to 26 ga. SPECIAL KILLED STEEL**

Intended for difficult drawing, spinning, and forming operations.

Manufacturers Standard Gage and Size Inches	Est. Weight per Sheet	Manufacturers Standard Gage and Size Inches	Est. Weight per Sheet
7 Ga. (.3/16") Wt. per Sq. Ft. 7.50		16 Ga. (.0598") Wt. per Sq. Ft. 2.50	
36 x 96	180.0	36 x 96	60.0
36 x 120	225.0	36 x 120	75.0
		48 x 120	100.0
9 Ga. (.1494") Wt. per Sq. Ft. 6.25		18 Ga. (.0478") Wt. per Sq. Ft. 2.00	
36 x 120	187.5	30 x 96	40.0
		36 x 96	48.0
10 Ga. (.1345") Wt. per Sq. Ft. 5.625		36 x 120	60.0
36 x 96	135.0	48 x 120	80.0
36 x 120	168.8		
48 x 120	225.0		
48 x 144	270.0		
11 Ga. (.1196") Wt. per Sq. Ft. 5.00		19 Ga. (.0418") Wt. per Sq. Ft. 1.75	
30 x 96	100.0	30 x 96	35.0
36 x 96	120.0	36 x 96	42.0
36 x 120	150.0	36 x 120	52.5
48 x 120	200.0		
12 Ga. (.1046") Wt. per Sq. Ft. 4.375		20 Ga. (.0359") Wt. per Sq. Ft. 1.50	
30 x 96	87.5	30 x 96	30.0
36 x 96	105.0	36 x 96	36.0
36 x 120	131.3	36 x 120	45.0
48 x 96	140.0	48 x 120	60.0
48 x 120	175.0		
13 Ga. (.0897") Wt. per Sq. Ft. 3.75		22 Ga. (.0299") Wt. per Sq. Ft. 1.25	
30 x 96	75.0	30 x 96	25.0
36 x 96	90.0	36 x 96	30.0
36 x 120	112.5	36 x 120	37.5
14 Ga. (.0747") Wt. per Sq. Ft. 3.125		24 Ga. (.0239") Wt. per Sq. Ft. 1.00	
30 x 96	62.5	30 x 96	20.0
30 x 120	78.1	36 x 96	24.0
36 x 96	75.0	36 x 120	30.0
36 x 120	93.8		
48 x 120	125.0		
48 x 144	150.0		
15 Ga. (.0673") Wt. per Sq. Ft. 2.812		25 Ga. (.0209") Wt. per Sq. Ft. .875	
30 x 96	56.2	36 x 96	21.5
36 x 96	67.5		
16 Ga. (.0598") Wt. per Sq. Ft. 2.50		26 Ga. (.0179") Wt. per Sq. Ft. .75	
30 x 96	50.0	30 x 96	15.0
		36 x 96	18.0
		36 x 120	22.5
28 Ga. (.0149") Wt. per Sq. Ft. .625			
30 x 96			
30 Ga. (.0120") Wt. per Sq. Ft. .50			
36 x 96			

STEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA



COLD ROLLED STEEL IN COILS

COMMERCIAL QUALITY OILED

SOFT TEMPER

Rockwell 60 B Max.



Decimal Thickness Inches	Max. Width Inches	Stock Carried	Decimal Thickness Inches	Max. Width Inches	Stock Carried
.015	36	Coils	.050	36	Coils
.018	36	Coils	.054	36	Coils
.020	36	Coils	.0598	36	Coils
.025	36	Coils	.062	36	Coils
.028	36	Coils	.0673	36	Coils
.031	36	Coils	.075	36	Coils
.035	36	Coils	.083	36	Coils
.042	36	Coils	.093	36	Coils
.0478	36	Coils			

Material can be slit to any width, or flattened and cut to length on mill type flattening equipment.

BRIGHT FINISH COILS COLD ROLLED STEEL SHEETS



SOFT TEMPER

Rockwell 60 B Max.



Decimal Thickness Inches	Max. Width Inches	Stock Carried	Decimal Thickness Inches	Max. Width Inches	Stock Carried
.018	36	Coils	.042	36	Coils
.025	36	Coils	.050	36	Coils
.031	36	Coils	.062	36	Coils
.035	36	Coils			

Material can be slit to any width, or flattened and cut to length on mill type flattening equipment.

SHEETS COLD ROLLED STEEL IN COILS



QUARTER HARD TEMPER

Rockwell 60-75 B



Decimal Maximum Thickness Inches	Maximum Width Inches	Stock Carried	Decimal Maximum Thickness Inches	Maximum Width Inches	Stock Carried	Decimal Maximum Thickness Inches	Maximum Width Inches	Stock Carried
.018	30	Coils	.031	30	Coils	.050	30	Coils
.020	30	Coils	.035	30	Coils	.062	30	Coils
.025	30	Coils	.042	30	Coils			

Material can be slit to any width, or flattened and cut to length on mill type flattening equipment.

SHEETS COLD ROLLED STEEL IN COILS



HALF HARD TEMPER

Rockwell 70-85 B



Decimal Maximum Thickness Inches	Maximum Width Inches	Stock Carried	Decimal Maximum Thickness Inches	Maximum Width Inches	Stock Carried	Decimal Maximum Thickness Inches	Maximum Width Inches	Stock Carried
.018	30	Coils	.031	30	Coils	.050	30	Coils
.020	30	Coils	.035	30	Coils	.062	30	Coils
.025	30	Coils	.042	30	Coils			

Material can be slit to any width, or flattened and cut to length on mill type flattening equipment.

DETROIT 12,
Twinbrook
Mail Box 148 E
13400 Mt. El

BRIGHT FINISH
COLD ROLLED STEEL SHEETS

SOFT TEMPER

Rockwell 60 B Max.

Gage and Size in Inches	Est. Wt. per Sheet	Gage and Size in Inches	Est. Wt. per Sheet
.018x36x96	18.1	.035x36x96	35.1
.020x36x96	20.1	.042x36x96	42.1
.025x36x96	25.1	.050x36x96	50.2
.031x36x96	31.1	.062x36x96	62.2

QUARTER HARD TEMPER
COLD ROLLED STEEL SHEETS

Rockwell 60-75B

Gage and Size in Inches	Est. Wt. per Sheet	Gage and Size in Inches	Est. Wt. per Sheet
.018x30x84	13.2	.035x30x84	25.6
.020x30x84	14.6	.042x30x84	30.7
.025x30x84	18.3	.050x30x84	36.6
.031x30x84	22.7	.062x30x84	45.4

HALF HARD TEMPER
COLD ROLLED STEEL SHEETS

Rockwell 70-85B

Gage and Size in Inches	Est. Wt. per Sheet	Gage and Size in Inches	Est. Wt. per Sheet
.018x30x96	15.1	.035x30x96	29.3
.020x30x96	16.7	.042x30x96	35.1
.025x30x96	21.0	.050x30x96	41.8
.031x30x96	25.9	.062x30x96	51.9

HARD TEMPER
COLD ROLLED STEEL SHEETS

Rockwell 80-95B

Gage and Size in Inches	Est. Wt. per Sheet	Gage and Size in Inches	Est. Wt. per Sheet
.018x30x72	11.3	.035x30x72	22.0
.020x30x72	12.5	.040x30x72	26.3
.025x30x72	15.7	.050x30x72	31.4
.031x30x72	19.4	.062x30x72	38.9

STEEL
TUBING

WIRE
DRILL ROD

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

GALVANIZED STEEL SHEETS

PRIME—LOW CARBON—OPEN HEARTH

(Manufacturers Standard Gage)

Gage & Size in Inches	Est. Wt. per Sheet	Gage & Size in Inches	Est. Wt. per Sheet
No. 10 (.1382") Wt. per Sq. Ft. 5.781		No. 18 (.0516") Wt. per Sq. Ft. 2.156	
30 x 96	115.6	24 x 96	34.5
30 x 120	144.5	24 x 120	43.1
36 x 96	138.8	26 x 96	37.4
36 x 120	173.4	26 x 120	46.7
42 x 96	161.9	28 x 72	30.2
42 x 120	202.3	28 x 84	35.2
48 x 96	185.0	28 x 96	40.2
48 x 120	231.2	28 x 108	45.3
No. 11 (.1233") Wt. per Sq. Ft. 5.156		28 x 120	50.3
48 x 120	206.2	30 x 96	43.1
No. 12 (.1084") Wt. per Sq. Ft. 4.531		30 x 120	53.9
30 x 96	90.6	36 x 96	51.8
30 x 120	113.3	36 x 120	64.7
36 x 96	108.8	42 x 96	60.4
36 x 120	135.9	42 x 120	75.5
42 x 96	126.9	48 x 96	69.0
42 x 120	158.6	48 x 120	86.2
48 x 96	145.0		
48 x 120	181.2		
No. 14 (.0785") Wt. per Sq. Ft. 3.281		No. 20 (.0396") Wt. per Sq. Ft. 1.656	
30 x 96	65.6	24 x 96	26.5
30 x 120	82.0	24 x 120	33.1
36 x 96	78.8	26 x 96	28.7
36 x 120	98.4	26 x 120	35.9
42 x 96	91.9	28 x 72	23.2
42 x 120	114.8	28 x 84	27.1
48 x 96	105.0	28 x 96	30.9
48 x 120	131.2	28 x 108	34.8
		28 x 120	38.6
		28 x 144	46.4
		30 x 96	33.1
		30 x 108	37.3
		30 x 120	41.4
		30 x 144	49.7
No. 16 (.0635") Wt. per Sq. Ft. 2.656		36 x 96	39.8
24 x 96	42.5	36 x 120	49.7
24 x 120	53.1	42 x 96	46.4
28 x 96	49.6	42 x 120	58.0
28 x 120	62.0	48 x 96	53.0
30 x 96	53.1	48 x 120	66.2
30 x 120	66.4		
36 x 96	63.8	No. 22 (.0336") Wt. per Sq. Ft. 1.406	
36 x 120	79.7	24 x 96	22.5
42 x 96	74.4	24 x 120	28.1
42 x 120	93.0	26 x 96	24.4
48 x 96	85.0	28 x 72	19.7
48 x 120	106.2	28 x 84	23.0

(Continued on following page)

DETROIT 12,
Twinbrook
Mail Box 148 H
13400 Mt. El

GALVANIZED STEEL SHEETS**PRIME—LOW CARBON—OPEN HEARTH**

(Manufacturers Standard Gage)

(Continued from preceding page)

Gage & Size in Inches	Est. Wt. per Sheet	Gage & Size in Inches	Est. Wt. per Sheet
No. 22 (.0336")			No. 26 (.0217")
Wt. per Sq. Ft. 1.406			Wt. per Sq. Ft. .906
28 x 96	26.2	28 x 144	25.4
28 x 108	29.5	30 x 96	18.1
28 x 120	32.8	30 x 120	22.7
28 x 144	39.4	30 x 144	27.2
30 x 96	28.1	32 x 96	19.3
30 x 120	35.2	36 x 96	21.8
36 x 96	33.8	36 x 120	27.2
36 x 120	42.2	42 x 96	25.4
42 x 96	39.4	42 x 120	31.7
42 x 120	49.2	48 x 120	36.2
48 x 96	45.0		
48 x 120	56.2		
No. 24 (.0276")			No. 27 (.0202")
Wt. per Sq. Ft. 1.156			Wt. per Sq. Ft. .844
24 x 96	18.5	24 x 96	13.5
24 x 120	23.1	28 x 96	15.8
26 x 96	20.0	30 x 96	16.9
26 x 120	25.0	36 x 96	20.3
28 x 72	16.2		
28 x 84	18.9		
28 x 96	21.6		
28 x 108	24.3		
28 x 120	27.0		
28 x 144	32.4		
30 x 96	23.1		
30 x 120	28.9		
36 x 96	27.8		
36 x 120	34.7		
42 x 96	32.4		
42 x 120	40.5		
48 x 96	37.0		
48 x 120	46.2		
No. 26 (.0217")			No. 28 (.0187")
Wt. per Sq. Ft. .906			Wt. per Sq. Ft. .781
24 x 96	14.5	24 x 96	12.5
24 x 120	18.1	24 x 120	15.6
26 x 96	15.7	26 x 96	13.5
26 x 120	19.6	26 x 120	16.9
28 x 72	12.7	28 x 72	10.9
28 x 84	14.8	28 x 84	12.8
28 x 96	16.9	28 x 96	14.6
28 x 108	19.0	28 x 108	16.4
28 x 120	21.1	28 x 120	18.2
		28 x 144	21.8
		30 x 96	15.6
		30 x 120	19.5
		30 x 144	23.4
		32 x 96	16.7
		36 x 96	18.8
		36 x 120	23.4
No. 30 (.0157")			No. 32 (.0140")
Wt. per Sq. Ft. .656			Wt. per Sq. Ft. .656
24 x 96	10.5	24 x 96	10.5
24 x 120	13.1	24 x 120	13.1
26 x 96	13.1	30 x 96	13.1
26 x 120	16.4	30 x 120	16.4
28 x 72	13.9	32 x 96	13.9
28 x 84	15.8	36 x 96	15.8
28 x 96	19.7	36 x 120	19.7
28 x 108			
28 x 120			





GALVANIZED STEEL SHEETS IN COILS



PRIME—LOW CARBON—OPEN HEARTH
(Manufacturers Standard Gage)

Gage & Width in Inches	Est. Wt. per Foot	Gage & Width in Inches	Est. Wt. per Foot
No. 16x36	7.968	No. 24x36	3.468
48	10.624	48	4.624
No. 18x36	6.468	No. 26x36	2.718
48	8.624	48	3.624
No. 20x36	4.968	No. 28x36	2.343
48	6.624		
No. 22x36	4.218		
48	5.624		

Material can be slit to any width or flattened and cut to length on mill type flattening equipment.

COLD ROLLED PAINT GRIP

STEEL SHEETS

STRETCHER LEVELED

A flash electro coating of spelter especially suitable for painted surface where extra smooth finish is required. Ideal for spot welding. These sheets are not recommended except where surface is to be painted.

Mfrs. Standard Gage and Size Inches	Est. Weight per Sheet	Mfrs. Standard Gage and Size Inches	Est. Weight per Sheet
No. 16 (.0598")—2.50 #Sq. Ft.		No. 22 (.0299")—1.25 #Sq. Ft.	
48 x 120	100.0	36 x 120	37.5
No. 18 (.0478")—2.00 #Sq. Ft.		48 x 96	40.0
36 x 120	60.0	48 x 120	50.0
48 x 96	64.0	No. 24 (.0239")—1.00 #Sq. Ft.	
48 x 120	80.0	36 x 120	30.0
No. 20 (.0359")—1.50 #Sq. Ft.		48 x 96	32.0
36 x 120	45.0	48 x 120	40.0
48 x 120	60.0	No. 26 (.0179")—.75 #Sq. Ft.	
		36 x 120	22.5

LEAD COATED STEEL SHEETS

LONG TERNE 6 LBS. COATING

Prime quality terne plate. This sheet is coated with standard mixture of lead and tin. Suitable for soldered tanks and for forming and light stamping where a coated sheet is desirable.

Gage & Size in Inches	Est. Weight per Sheet	Gage & Size in Inches	Est. Weight per Sheet
14—36x120	94.0	22—36x120	37.5
16—36x120	75.0	24—36x120	30.0
18—36x120	60.0	26—36x120	22.5
20—36x120	45.0		

PAINTGRIP GALVANIZED

STEEL SHEETS

The spelter is applied to this sheet by a special process which retains the ductility of the coating. The galvanized surface will not break or flake in any forming or drawing operation, subject only to the limitations of the base metal itself. The surface is specially prepared for painting.

The stretcher leveled sheet is ideal for painted signs, truck bodies, and all painted panels where it is desired to prevent rusting in case paint is damaged.

Manufacturers Standard Gage Size in Inches	Est. Weight per Sheet	Manufacturers Standard Gage Size in Inches	Est. Weight per Sheet
No. 16 (.0635") Wt. per Sq. Ft. 2.656		No. 22 (.0336") Wt. per Sq. Ft. 1.406	
30 x 96	53.1	36 x 120	42.2
30 x 120	66.4	36 x 144	50.6
36 x 96	63.8	*42 x 96	39.4
36 x 120	79.7	*42 x 120	49.2
42 x 120	93.0	*42 x 144	59.1
42 x 144	111.6	*48 x 96	45.0
48 x 96	85.0	*48 x 120	56.2
48 x 120	106.2	*48 x 144	67.5
No. 18 (.0516") Wt. per Sq. Ft. 2.156		No. 24 (.0276") Wt. per Sq. Ft. 1.156	
30 x 96	43.1	30 x 96	23.1
30 x 120	53.9	30 x 120	28.9
36 x 96	51.8	36 x 96	27.8
36 x 120	64.7	36 x 120	34.7
*42 x 120	75.5	42 x 96	32.4
*42 x 144	90.6	42 x 120	40.5
*48 x 96	69.0	42 x 144	48.6
*48 x 120	86.2	48 x 96	37.0
*48 x 144	103.5	48 x 120	46.2
		48 x 144	55.5
No. 20 (.0396") Wt. per Sq. Ft. 1.656		No. 26 (.0217") Wt. per Sq. Ft. .906	
24 x 96	26.5	24 x 96	14.5
24 x 120	33.1	24 x 120	18.1
30 x 96	33.1	30 x 96	18.1
30 x 120	41.4	30 x 120	22.7
36 x 96	39.8	30 x 144	27.3
36 x 120	49.7	36 x 96	21.8
36 x 144	59.6	36 x 120	27.2
*42 x 96	46.4	36 x 144	32.6
*42 x 120	58.0	42 x 96	25.4
*42 x 144	69.6	42 x 120	31.7
*48 x 96	53.0	42 x 144	38.1
*48 x 120	66.2	48 x 96	29.0
*48 x 144	79.5	48 x 120	36.2
No. 22 (.0336") Wt. per Sq. Ft. 1.406		No. 28 (.0187") Wt. per Sq. Ft. .781	
24 x 96	22.5	30 x 96	15.6
30 x 96	28.1	30 x 120	19.5
30 x 120	35.2	36 x 96	18.8
36 x 96	33.8	36 x 120	23.4

*Stretcher Leveled.



PAINTLOK GALVANIZED**STEEL SHEETS**

Paintlok is an electro galvanized steel sheet. The tightly adhering spelter will not flake or peel. It is ideal for painting without additional preparation.

Mfrs. Standard Gage and Size Inches	Est. Weight Per Sheet	Mfrs. Standard Gage and Size Inches	Est. Weight Per Sheet
No. 16 (.0598")		No. 22 (.0299")	
Wt. per Sq. Ft. 2.50		Wt. per Sq. Ft. 1.25	
30 x 120	62.5	36 x 96	30.0
30 x 144	75.0	36 x 120	37.5
36 x 96	60.0	*48 x 96	40.0
36 x 120	75.0	*48 x 120	50.0
*48 x 120	100.0	*48 x 144	60.0
*48 x 144	120.0		
No. 18 (.0478")		No. 24 (.0239")	
Wt. per Sq. Ft. 2.00		Wt. per Sq. Ft. 1.00	
30 x 120	50.0	36 x 96	24.0
36 x 96	48.0	36 x 120	30.0
36 x 120	60.0	*48 x 96	32.0
36 x 144	72.0	*48 x 120	40.0
*42 x 120	70.0	*48 x 144	48.0
*48 x 96	64.0		
*48 x 120	80.0	No. 26 (.0179")	
*48 x 144	96.0	Wt. per Sq. Ft. .75	
No. 20 (.0359")		36 x 96	18.0
Wt. per Sq. Ft. 1.50		36 x 120	22.5
30 x 120	37.5	48 x 96	24.0
36 x 96	36.0	48 x 120	30.0
36 x 120	45.0	48 x 144	36.0
*48 x 96	48.0	No. 28 (.0149")	
*48 x 120	60.0	Wt. per Sq. Ft. .625	
*48 x 144	72.0	36 x 96	15.0
		36 x 120	18.7
		48 x 96	20.0
		48 x 120	25.0

*Also stocked Stretcher Leveled.

**PAINTLOK GALVANIZED****STEEL SHEETS IN COILS**

Mfrs. Standard Gage	Width Inches	Est. Wt. Per Ft.
No. 18 (.0478)	36	6.00
No. 20 (.0359)	36	4.50
No. 22 (.0299)	36	3.75
No. 24 (.0239)	36	3.00
No. 26 (.0179)	36	2.25
No. 28 (.0149)	36	1.87
No. 30 (.0120)	36	1.50

Material can be slit to any width or flattened and cut to length on mill type flattening equipment.

DETROIT 12
Twinbro
Mail Box 148
13400 Mt. E



GALVANIZED—CORRUGATED



STEEL SHEETS 2½" CORRUGATIONS

Manufacturers Standard Gage and Size	Sheets per 100 Sq. Ft.	Weight per Sq.	Manufacturers Standard Gage and Size	Sheets per 100 Sq. Ft.	Weight per Sq.
16-26x 96	5.769	286	22-26x144	3.846	151
26x120	4.616	286	24-26x 72	7.692	125
18-26x 72	7.692	232	26x 84	6.593	125
26x 84	6.593	232	26x 96	5.769	125
26x 96	5.769	232	26x108	5.128	125
26x108	5.128	232	26x120	4.616	125
26x120	4.616	232	26x144	3.846	125
26x144	3.846	232	26-26x 72	7.692	98
20-26x 72	7.692	178	26x 84	6.593	98
26x 84	6.593	178	26x 96	5.769	98
26x 96	5.769	178	26x108	5.128	98
26x108	5.128	178	26x120	4.616	98
26x120	4.616	178	26x144	3.846	98
26x144	3.846	178	28-26x 72	7.692	84
22-26x 72	7.692	151	26x 84	6.593	84
26x 84	6.593	151	26x 96	5.769	84
26x 96	5.769	151	26x108	5.128	84
26x108	5.128	151	26x120	4.616	84
26x120	4.616	151	26x144	3.846	84

Corrugations run the length of sheet.

Roofing—27½" widths in 16 to 28 gauge inclusive can be furnished promptly.

A square as shown in the above table consists of 100 sq. ft. of sheet steel after corrugating, but before laying, and does not include allowance for side and end laps.

Weight per square is based on sheets corrugated with 2½" corrugations. Sheets 26" wide after corrugating cover 24" to the weather when laid, with one corrugation side lap, as is customary for siding; sheets 27½" wide after corrugating cover 24" to the weather when laid with one and one-half corrugation side lap, as is customary for roofing. End lap will vary with conditions.

We can also supply sheets lighter than No. 16 gauge with standard 1¼" corrugations. We can supply corrugated sheets in special widths up to 36" or lengths up to 12 ft. with either 1¼" or 2½" corrugations.

STEEL TUBING

WIRE DRILL ROD

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA

VITREOUS ENAMELING SHEETS

ARMCO INGOT IRON FOR FLAT WORK

Special silver finish for fusing with vitreous enamel at high temperatures. Freedom from impurities reduces blisters and surface imperfections, making this sheet suitable for highest quality vitreous enameling work. See deep drawing quality if severe forming or drawing is required.

CHICAGO PLANT ONLY

Mfgs. Standard Gage and Size Inches	Est. Weight per Sheet	Mfgs. Standard Gage and Size Inches	Est. Weight per Sheet
16 Ga. (.0598")		20 Ga. (.0359")	
Wt. per Sq. Ft. 2.50		Wt. per Sq. Ft. 1.50	
30 x 120	62.5	36 x 96	36.0
36 x 96	60.0	36 x 120	45.0
36 x 120	75.0	42 x 120	52.5
18 Ga. (.0478")		48 x 120	60.0
Wt. per Sq. Ft. 2.00		22 Ga. (.0299")	
24 x 96	32.0	Wt. per Sq. Ft. 1.25	
24 x 120	40.0	24 x 96	20.0
30 x 96	40.0	24 x 120	25.0
30 x 120	50.0	30 x 96	25.0
36 x 96	48.0	30 x 120	31.3
36 x 120	60.0	36 x 96	30.0
48 x 96	64.0	36 x 120	37.5
48 x 120	80.0	24 Ga. (.0239")	
20 Ga. (.0359")		Wt. per Sq. Ft. 1.00	
Wt. per Sq. Ft. 1.50		24 x 96	16.0
24 x 96	24.0	24 x 120	20.0
24 x 120	30.0	30 x 96	20.0
30 x 96	30.0	30 x 120	25.0
30 x 120	37.5	36 x 120	30.0

VITREOUS ENAMELING SHEETS

ARMCO INGOT IRON DEEP DRAWING AND SPINNING QUALITY

For vitreous enameling work where drawing, spinning or deep forming qualities are required. Freedom from impurities makes this sheet ideal for fusing with vitreous enameling.

CHICAGO PLANT ONLY

Mfgs. Standard Gage and Size Inches	Est. Weight per Sheet	Mfgs. Standard Gage and Size Inches	Est. Weight per Sheet
16 Ga. (.0598")		20 Ga. (.0359")	
Wt. per Sq. Ft. 2.50		Wt. per Sq. Ft. 1.50	
30 x 120	62.5	42 x 120	52.5
36 x 96	60.0	48 x 120	60.0
36 x 120	75.0	22 Ga. (.0299")	
18 Ga. (.0478")		Wt. per Sq. Ft. 1.25	
Wt. per Sq. Ft. 2.00		24 x 96	20.0
24 x 96	32.0	24 x 120	25.0
24 x 120	40.0	30 x 96	25.0
30 x 96	40.0	30 x 120	31.3
30 x 120	50.0	36 x 96	30.0
36 x 96	48.0	36 x 120	37.5
36 x 120	60.0	24 Ga. (.0239")	
48 x 120	80.0	Wt. per Sq. Ft. 1.00	
20 Ga. (.0359")		24 x 96	16.0
Wt. per Sq. Ft. 1.50		24 x 120	20.0
24 x 96	24.0	30 x 96	20.0
24 x 120	30.0	30 x 120	25.0
30 x 96	30.0	36 x 120	30.0
30 x 120	37.5	22 Ga. (.0179")	
36 x 96	36.0	Wt. per Sq. Ft. .75	
36 x 120	45.0	24 x 96	12.0
		36 x 120	22.5

DETROIT 1
Twinbrook
Mail Box 148
13400 Mt.

**COLD ROLLED STRIP STEEL**

Dead Soft Temper



8 Ft. Lengths

Thickness	Birm., Ga. or Fract.	Maximum Width Inches	Weight per Sq. Ft.	Thickness	Birm., Ga. or Fract.	Maximum Width Inches	Weight per Sq. Ft.
.010	No. 31	6	.408	.078	5/64	18	3.187
.012	No. 30	6	.490	.083	No. 14	18	3.386
.014	No. 28	6	.571	.095	3/32	18	3.876
.016	1/64	8	.653	.109	7/64	18	4.459
.018	No. 26	12	.734	.120	No. 11	18	4.896
.020	No. 25	12	.816	.125	1/8	18	5.100
.022	No. 24	12	.898	.134	No. 10	18	5.467
.025	No. 23	12	1.020	.140	9/64	18	5.737
.028	No. 22	12	1.142	.148	No. 9	18	6.038
.032	1/32	18	1.306	.156	5/32	18	6.373
.035	No. 20	18	1.428	.165	No. 8	18	6.732
.042	No. 19	18	1.714	.187	3/16	18	7.650
.050	No. 18	18	1.999	.203	13/64	18	8.282
.058	No. 17	18	2.366	.219	7/32	18	8.930
.0625	1/16	18	2.550	.250	1/4	18	10.200
.065	No. 16	18	2.652	.312	5/16	12	12.750
.072	No. 15	18	2.938	.375	3/8	12	15.300

**COLD ROLLED STRIP STEEL**Half Hard Temper
6 Ft.-8 Ft. Lengths

Thickness	Birm., Ga. or Fract.	Maximum Width Inches	Weight per Sq. Ft.	Thickness	Birm., Ga. or Fract.	Maximum Width Inches	Weight per Sq. Ft.
.010	No. 31	6	.408	.058	No. 17	18	2.366
.012	No. 30	6	.490	.0625	1/16	18	2.550
.014	No. 28	6	.571	.065	No. 16	18	2.652
.015		6	.612	.072	No. 15	18	2.938
.016	1/64	6	.653	.078	5/64	18	3.187
.018	No. 26	12	.734	.083	No. 14	18	3.386
.020	No. 25	12	.816	.095	3/32	18	3.876
.022	No. 24	12	.898	.109	7/64	18	4.459
.025	No. 23	12	1.020	.120	No. 11	18	4.896
.028	No. 22	12	1.142	.125	1/8	18	5.100
.032	1/32	18	1.306	.134	No. 10	18	5.467
.035	No. 20	18	1.428	.156	5/32	18	6.373
.042	No. 19	18	1.714	.187	3/16	18	7.650
.050	No. 18	18	1.999	.250	1/4	12	10.200

**COLD ROLLED STRIP STEEL**Hard Temper
6 Ft. Lengths

Thickness	Birm., Ga. or Fract.	Maximum Width Inches	Weight per Sq. Ft.	Thickness	Birm., Ga. or Fract.	Maximum Width Inches	Weight per Sq. Ft.
.010	No. 31	6	408	.058	No. 17	18	2.366
.012	No. 30	6	.490	.0625	1/16	18	2.550
.014	No. 28	6	.571	.065	No. 16	18	2.652
.015		8	.612	.072	No. 15	18	2.938
.016	1/64	6	.653	.083	No. 14	18	3.386
.018	No. 26	6	.734	.095	3/32	18	3.876
.020	No. 25	8	.816	.109	7/64	18	4.459
.022	No. 24	12	.898	.120	No. 11	18	4.896
.025	No. 23	12	1.020	.125	1/8	18	5.100
.028	No. 22	12	1.142	.134	No. 10	18	5.467
.032	1/32	18	1.306	.156	5/32	18	6.373
.035	No. 20	18	1.428	.187	3/16	18	7.650
.042	No. 19	18	1.714	.219	7/32	18	8.930
.050	No. 18	18	1.999				

Can be furnished sheared to width or length.

STEEL TUBING

WIRE DRILL ROD

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA

COLD ROLLED ROUND EDGE FLAT WIRE

#4 Edge—#2 Bright Finish

ROCKWELL HARDNESS B-60-75

No. 3 Temper—12 Ft.

Thickness	Width Inches	Wt. per Lin. Ft.	Est. Wt. 12' Bar	Thickness	Width Inches	Wt. per Lin. Ft.	Est. Wt. 12' Bar
.028	1/2	.048	.576	.080	1/4	.068	.816
					5/16	.085	1.020
.032	1/4	.027	.324		3/8	.102	1.224
	5/16	.034	.408		7/16	.119	1.428
	3/8	.041	.492		1/2	.136	1.632
	1/2	.054	.648		5/8	.170	2.040
	5/8	.068	.816		3/4	.204	2.448
	3/4	.082	.984		7/8	.238	2.856
	7/8	.095	1.140		1	.272	3.264
	1	.109	1.308		1 1/2	.408	4.896
	1 1/4	.136	1.632		5/16	.100	1.200
	1 1/2	.163	1.956		3/8	.120	1.440
.035	3/16	.022	.264		7/16	.139	1.668
	1/4	.030	.360		1/2	.159	1.908
	5/16	.037	.444		5/8	.199	2.388
	3/8	.045	.540		3/4	.238	2.856
	7/16	.052	.624		7/8	.279	3.348
	1/2	.060	.720		1	.319	3.828
	5/8	.074	.888		1 1/8	.358	4.296
	3/4	.089	1.068		1 1/4	.398	4.776
	7/8	.104	1.248		1 1/2	.478	5.736
	1	.119	1.428		3/8	.278	3.336
	1 1/4	.149	1.788		1	.371	4.452
	1 1/2	.179	2.148				
.050	3/16	.032	.384	.125	1/4	.106	1.272
	1/4	.043	.516		5/16	.133	1.596
	5/16	.053	.636		3/8	.159	1.908
	3/8	.064	.768		7/16	.186	2.232
	7/16	.074	.888		1/2	.213	2.556
	1/2	.085	1.020		5/8	.266	3.192
	5/8	.106	1.272		3/4	.319	3.828
	3/4	.128	1.536		7/8	.372	4.464
	7/8	.149	1.788		1	.425	5.100
	1	.170	2.040		1 1/8	.478	5.736
	1 1/2	.255	3.060		1 1/4	.531	6.372
	1 3/4	.298	3.576		1 1/2	.638	7.656
	2	.340	4.080		2	.850	10.20
					2 1/2	1.063	12.756
.0625	3/16	.040	.480	.156	5/16	.166	1.992
	1/4	.053	.636		3/8	.199	2.388
	5/16	.066	.792		1/2	.266	3.192
	3/8	.080	.960		5/8	.332	3.984
	7/16	.093	1.116		3/4	.398	4.776
	1/2	.106	1.272		1	.531	6.372
	9/16	.120	1.440				
	5/8	.133	1.596				
	3/4	.159	1.908				
	7/8	.186	2.232				
	1	.213	2.556				
	1 1/4	.266	3.192				
	1 1/2	.319	3.828				
	1 3/4	.372	4.464				
	2	.425	5.100				
.072	1/2	.122	1.464		5/16	.199	2.388
	5/8	.153	1.836		3/8	.239	2.868
	1	.245	2.940		7/16	.279	3.348
					1/2	.319	3.828
					5/8	.398	4.776
					3/4	.478	5.736
					7/8	.558	6.696
					1	.638	7.656
					1 1/4	.797	9.564
					1 1/2	.956	11.472

DETROIT 12,
Twinbrook
Mail Box 148 E
13400 Mt. E

COLD ROLLED ROUND EDGE FLAT WIRE**COILS**—Rockwell B-60-75

A full cold rolled product with rolled round edge. Bright finish for plating.

CHICAGO WAREHOUSE ONLY

Thickness	Ga. or Fract. Equiv.	Width Inches	Weight per Lineal Ft.	Stock Carried	Thickness	Ga. or Fract. Equiv.	Width Inches	Weight per Lineal Ft.	Stock Carried
.032	1/32"	1/2	.054	Coils	.062	1/16"	1/2	.106	Coils
.062	1/16"	3/16	.040	Coils	.065	#16	3/16	.042	Coils
.062	1/16"	1/4	.053	Coils	.065	#16	1/4	.055	Coils
.062	1/16"	5/16	.066	Coils	.065	#16	5/16	.069	Coils
.062	1/16"	3/8	.080	Coils	.065	#16	1/2	.111	Coils

**HOT ROLLED ROUNDS
SPRING STEEL**

A.I.S.I. C1095—S.A.E. 1095

Size in Inches	Weight per Ft. Lbs.	Lengths in Feet	Size in Inches	Weight per Ft. Lbs.	Lengths in Feet
1/4	.167	16	7/8	2.044	16
5/16	.261	16	1	2.670	16
3/8	.376	16	1 1/16	3.015	16
7/16	.511	16	1 1/8	3.380	16
1/2	.668	16	1 3/16	3.766	16
9/16	.845	16	1 1/4	4.172	16
5/8	1.043	16	1 3/8	5.049	16
11/16	1.262	16	1 1/2	6.008	16
3/4	1.502	16	1 5/8	7.051	16
13/16	1.763	16	1 3/4	8.178	16

HOT ROLLED SQUARES**SPRING STEEL**A.I.S.I. C1095—S.A.E. 1095
CHICAGO AND DETROIT WAREHOUSES ONLY

Size in Inches	Weight per Ft. Lbs.	Random Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Random Lengths Feet
3/8	.478	16	3/4	1.910	16
7/16	.651	16	7/8	2.603	16
1/2	.850	16	1	3.400	16
9/16	1.080	16	1 1/8	4.300	16
5/8	1.330	16	1 1/4	5.312	16

HOT ROLLED SHEET SPRING STEEL

TOOL STEEL SHEETS NOT ANNEALED

Stock Lengths, 5 to 6 Ft. Random

CHICAGO AND DETROIT WAREHOUSES ONLY

Width in Inches	Birm. or Stubs Gage or Inches	Estimated Weight per Foot 18" Wide	Width in Inches	Birm. or Stubs Gage or Inches	Estimated Weight per Foot 18" Wide
18, 24	1/4"	15.2	18, 24	#17	3.6
18, 24	3/16"	11.5	18, 24	#18	3.0
18, 24	5/32"	9.6	18, 24	#19	2.6
18, 24	#10	8.2	18, 24	#20	2.1
18, 24	#11	7.4	18, 24	#21	2.0
18, 24	#12	6.7	18, 24	#22	1.7
18, 24	#13	5.8	18, 24	#23	1.5
18, 24	#14	5.1	18, 24	#24	1.4
18, 24	#15	4.4	18, 24	#25	1.3
18, 24	#16	4.0	18, 24	#27	1.1

STEEL TUBING

WIRE DRILL ROD

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA



HOT ROLLED FLATS



SPRING STEEL

Round Edge Overall

A.I.S.I. C1095—S.A.E. 1095

Size in Inches	Weight per Ft. Lbs.	Random Lengths Ft.	Size in Inches	Weight per Ft. Lbs.	Random Lengths Ft.
$\frac{1}{16}x\frac{3}{8}$	.080	16	$\frac{1}{4}x2\frac{3}{4}$	2.398	16
$\frac{1}{8}$	.106	16	3	2.550	16
$\frac{5}{8}$	.133	16	$3\frac{1}{2}$	2.975	16
$\frac{3}{4}$	.159	16	4	3.400	16
$\frac{7}{8}$	.186	16	$4\frac{1}{2}$	3.825	16
1	.213	16	5	4.250	16
$1\frac{1}{4}$	.266	16	$5\frac{1}{2}$	4.675	16
$1\frac{1}{2}$	.319	16	6	5.100	16
$1\frac{3}{4}$	.372	16	$\frac{5}{16}x1$	1.063	16
2	.425	16	$1\frac{1}{4}$	1.328	16
$2\frac{1}{2}$	.531	16	$1\frac{3}{8}$	1.461	16
$\frac{3}{32}x\frac{1}{2}$	.159	16	$1\frac{1}{2}$	1.594	16
$\frac{3}{4}$	.239	16	$1\frac{3}{4}$	1.859	16
1	.319	16	2	2.125	16
$1\frac{1}{4}$	.398	16	$2\frac{1}{4}$	2.391	16
$1\frac{1}{2}$	.478	16	$2\frac{1}{2}$	2.656	16
$\frac{1}{8}x\frac{3}{8}$	.159	16	3	3.188	16
$\frac{1}{2}$	.213	16	$3\frac{1}{2}$	3.719	16
$\frac{5}{8}$	.266	16	4	4.250	16
$\frac{3}{4}$	.319	16	5	5.313	16
$\frac{7}{8}$	.372	16	6	6.375	16
1	.425	16	$\frac{3}{8}x\frac{3}{4}$	.956	16
$1\frac{1}{4}$	.531	16	1	1.275	16
$1\frac{1}{2}$	.638	16	$1\frac{1}{4}$	1.594	16
$1\frac{3}{4}$	.744	16	$1\frac{1}{2}$	1.913	16
2	.850	16	$1\frac{3}{4}$	2.251	16
$2\frac{1}{2}$	1.063	16	2	2.550	16
3	1.275	16	$2\frac{1}{4}$	2.869	16
$3\frac{1}{2}$	1.488	16	$2\frac{1}{2}$	3.188	16
4	1.700	16	3	3.825	16
$\frac{3}{16}x\frac{3}{8}$	.239	16	$3\frac{1}{2}$	4.463	16
$\frac{1}{2}$	.319	16	4	5.100	16
$\frac{5}{8}$	.398	16	$4\frac{1}{2}$	5.738	16
$\frac{3}{4}$	.478	16	5	6.375	16
$\frac{7}{8}$	.558	16	6	7.650	16
1	.638	16	$\frac{1}{16}x2$	2.975	16
$1\frac{1}{8}$	.717	16	$2\frac{1}{2}$	3.719	16
$1\frac{1}{4}$	.797	16	3	4.463	16
$1\frac{1}{2}$	.956	16	$3\frac{1}{2}$	5.206	16
$1\frac{3}{4}$	1.116	16	4	5.950	16
2	1.257	16	$4\frac{1}{2}$	6.694	16
$2\frac{1}{4}$	1.434	16	5	7.438	16
$2\frac{1}{2}$	1.594	16	6	8.925	16
3	1.913	16	$\frac{1}{2}x1\frac{1}{2}$	2.550	16
$3\frac{1}{2}$	2.231	16	$1\frac{3}{4}$	2.975	16
4	2.550	16	2	3.400	16
$\frac{1}{4}x\frac{1}{2}$	.425	16	$2\frac{1}{2}$	4.250	16
$\frac{5}{8}$	.531	16	3	5.100	16
$\frac{3}{4}$	.638	16	$3\frac{1}{2}$	5.950	16
$\frac{7}{8}$	.744	16	4	6.800	16
1	.850	16	$4\frac{1}{2}$	7.650	16
$1\frac{1}{8}$	.956	16	5	8.500	16
$1\frac{1}{4}$	1.063	16	$5\frac{1}{2}$	9.350	16
$1\frac{3}{8}$	1.169	16	6	10.20	16
$1\frac{1}{2}$	1.275	16	$\frac{3}{8}x2$	4.250	16
$1\frac{3}{4}$	1.488	16	3	6.375	16
2	1.700	16	4	8.500	16
$2\frac{1}{4}$	1.913	16	5	10.63	16
$2\frac{1}{2}$	2.125	16	6	12.75	16

DETROIT 12

Twinbro

Mail Box 148

13400 Mt.

COLD ROLLED ANNEALED SPRING STEEL

SAE 1074

(Diamond Brand)

SOFT ANNEALED

Highest quality open hearth grade. Can be easily formed and tempered. Intended for parts not requiring the more expensive 1% Carbon Steel.

HEAT TREATMENT

Quench in water from 1450 to 1475° F; Temper to Desired Hardness.

Thickness Birm. or Stubs	Width in Inches	Approx. Wt. Per Lineal Foot	Stock Lengths Feet	Thickness Birm. or Stubs	Width in Inches	Approx. Wt. Per Lineal Foot	Stock Lengths Feet
.010 x 18		.612	8, Coils	.042 x 18		2.570	8, Coils
.015 x 18		.918	8, Coils	.050 x 18		3.060	8, Coils
.016 x 18		.978	8, Coils	.062 x 18		3.795	8, Coils
.018 x 18		1.101	8, Coils	.072 x 18		4.406	8
.020 x 18		1.224	8, Coils	.080 x 18		4.896	8
.022 x 18		1.347	8, Coils	.083 x 18		5.078	8
.025 x 18		1.530	8, Coils	.094 x 18		5.754	8
.028 x 18		1.713	8, Coils	.109 x 18		6.670	8
.032 x 18		1.959	8, Coils	.125 x 18		7.649	8
.035 x 18		2.142	8, Coils				

COLD ROLLED ANNEALED SPRING STEEL

SAE 1095

SOFT ANNEALED

It is especially recommended for springs and similar work where the heavier duty is required, such as springs for typewriters, adding machines, die parts, etc., and is particularly adaptable for use in parts that must stand severe bending or forming operation before heat treating.

HEAT TREATMENT

Quench in water from 1400 to 1450° F; Temper to Desired Hardness.

Thickness Birm. or Stubs	Width in Inches	Approx. Wt. Per Lineal Foot	Stock Lengths Feet	Thickness Birm. or Stubs	Width in Inches	Approx. Wt. Per Lineal Foot	Stock Lengths Feet
.010 x 18		.612	10, Coils	.042 x 18		2.570	10, Coils
.012 x 18		.918	10, Coils	.050 x 18		3.060	10, Coils
.015 x 18		.978	10, Coils	.058 x 18		3.795	10, Coils
.018 x 18		1.101	10, Coils	.062 x 18		4.406	10, Coils
.020 x 18		1.224	10, Coils	.072 x 18		4.896	10, Coils
.022 x 18		1.347	10, Coils	.080 x 18		5.078	10
.025 x 18		1.530	10, Coils	.083 x 18		5.754	10
.028 x 18		1.713	10, Coils	.094 x 18		6.670	10
.032 x 18		1.959	10, Coils	.125 x 18		7.649	10
.035 x 18		2.142	10, Coils				

COLD ROLLED SHIM STEEL

Half Hard Temper

Recommended for motor shims and applications where extreme accuracy is important. Can be furnished slit to width.

CHICAGO AND DETROIT WAREHOUSES ONLY

Gage	Dec. Equiv.	Width in Inches	Stock Carried	Gage	Dec. Equiv.	Width in Inches	Stock Carried
	.002	6	Coils		.006	6	Coils
	.003	6	Coils	#34	.007	6	Coils
#26	.004	6	Coils	#33	.008	6	Coils
#35	.005	6	Coils	#31	.010	6	Coils

STEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

SEAMLESS STEEL TUBING

COLD DRAWN MECHANICAL

LOW CARBON

Lengths—5 to 24 Feet, Random

Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
1/8	24	.022	.081	.0242	3/8	18	.049	.277	.1706
	22	.028	.069	.0290		17	.058	.259	.1964
	20	.035	.055	.0336		16	.065	.245	.2152
	18	.049	.027	.0398		15	.072	.231	.2330
5/32	22	.028	.100	.0384	13/32	14	.083	.209	.2538
	21	.032	.092	.0425		13	.095	.185	.2841
3/16	26	.018	.152	.0327	7/16	12	.109	.157	.3097
	24	.022	.143	.039		11	.120	.135	.3268
	22	.028	.131	.0478		10	.134	.107	.3449
	21	.032	.123	.0533		16	.065	.276	.2367
	20	.035	.117	.0572		14	.083	.240	.2902
	18	.049	.089	.0727		13	.095	.216	.3155
	17	.058	.072	.0805		19	.042	.353	.1776
	16	.065	.057	.0854		18	.049	.339	.2036
7/32	24	.022	.175	.0463	15/32	23	.025	.388	.1103
	22	.028	.166	.0571		22	.028	.381	.1226
	18	.049	.120	.0888		21	.032	.373	.1388
	16	.065	.088	.1069		20	.035	.367	.1506
	26	.018	.214	.0446		19	.042	.353	.1776
1/4	24	.022	.206	.0536		18	.049	.339	.2036
	23	.025	.200	.0601		17	.058	.321	.2354
	22	.028	.194	.0664		16	.065	.307	.2589
	21	.032	.187	.0745		14	.083	.271	.3147
	20	.035	.180	.0804		13	.095	.247	.3480
	19	.042	.166	.0933		12	.109	.219	.3830
	18	.049	.152	.1052		11	.120	.197	.4075
	17	.058	.134	.1189		10	.134	.169	.4351
13/32	16	.065	.120	.1284	1 1/32	16	.065	.339	.2777
	14	.083	.084	.1480		13	.095	.279	.3802
	13	.095	.060	.1573		26	.018	.464	.0927
	18	.049	.183	.1217		24	.022	.456	.1123
15/32	24	.022	.268	.0684		22	.028	.444	.1411
	23	.025	.263	.0769		21	.032	.436	.1599
	22	.028	.256	.0852		20	.035	.430	.1738
	21	.032	.249	.0960		19	.042	.416	.2054
	20	.035	.242	.1039		18	.049	.402	.2360
	19	.042	.228	.1216		17	.058	.384	.2738
	18	.049	.214	.1382		16	.065	.370	.3020
	17	.058	.196	.1580		15	.072	.356	.3291
	16	.065	.182	.1722		14	.083	.334	.3696
	14	.083	.146	.2039		13	.095	.310	.4109
	13	.095	.122	.2212		12	.109	.282	.4552
	12	.109	.094	.2375		11	.120	.260	.4870
	11	.120	.072	.2473		10	.134	.232	.5238
	21	.032	.280	.1066		5/32	.156	.187	.5731
1 1/32	18	.049	.250	.1485		3/16	.187	.125	.6264
	26	.018	.339	.0686	17/32	16	.065	.401	.3249
	24	.022	.331	.0829		14	.083	.365	.3971
	23	.025	.325	.0935		11	.120	.291	.5267
	22	.028	.319	.1038	9/16	24	.022	.518	.1271
	21	.032	.311	.1172		23	.025	.513	.1436
	20	.035	.305	.1271					
	19	.042	.291	.1494					

(Continued on following page)

DETROIT 12,
Twinbrook
Mail Box 148 I
13400 Mt. E

SEAMLESS STEEL TUBING

COLD DRAWN MECHANICAL



LOW CARBON

Lengths—5 to 24 Feet, Random

(Continued from preceding page)

Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
$\frac{9}{16}$	22	.028	.506	.1600	$\frac{3}{4}$	21	.032	.686	.2454
	21	.032	.499	.1815		20	.035	.680	.2673
	20	.035	.492	.1974		19	.042	.666	.3176
	19	.042	.479	.2337		18	.049	.652	.3668
	18	.049	.464	.2690		17	.058	.634	.4287
	16	.065	.432	.3457		16	.065	.620	.4755
	14	.083	.396	.4255		15	.072	.606	.5214
	13	.095	.372	.4748		14	.083	.584	.5913
	12	.109	.344	.5285		13	.095	.560	.6646
	11	.120	.322	.5677		12	.109	.532	.7462
	10	.134	.294	.6140		11	.120	.510	.8074
	$\frac{5}{32}$	.156	.250	.6781		10	.134	.482	.8816
	$\frac{3}{16}$	.187	.187	.7529		$\frac{5}{32}$	.156	.437	.9897
						$\frac{3}{16}$	.187	.375	1.128
$\frac{5}{8}$	24	.022	.581	.1417	$\frac{7}{32}$	.219	.312	1.242	
	23	.025	.575	.1602	$\frac{1}{4}$	.250	.250	1.330	
	22	.028	.569	.1785					
	21	.032	.561	.2027	$1\frac{3}{16}$	24	.022	.768	.1859
	20	.035	.555	.2205		22	.028	.756	.2347
	19	.042	.541	.2615		20	.035	.742	.2908
	18	.049	.527	.3014		18	.049	.714	.3998
	17	.058	.509	.3512		17	.058	.697	.4677
	16	.065	.495	.3888		16	.065	.682	.5193
	15	.072	.481	.4252		14	.083	.646	.6471
	14	.083	.459	.4805		13	.095	.622	.7285
	13	.095	.435	.5377		12	.109	.594	.8195
	12	.109	.407	.6007		11	.120	.572	.8881
	11	.120	.385	.6472		10	.134	.544	.9717
	10	.134	.357	.7027		$\frac{5}{32}$	.156	.500	1.095
	$\frac{5}{32}$	.156	.312	.7814		$\frac{3}{16}$	.187	.437	1.255
	$\frac{3}{16}$	.187	.250	.8774		$\frac{7}{32}$	.219	.375	1.389
	$\frac{7}{32}$	.219	.187	.9496		$\frac{1}{4}$	.250	.312	1.503
	$\frac{1}{4}$	.250	.125	1.001					
$2\frac{1}{32}$	13	.095	.466	.5692	$2\frac{7}{32}$	12	.109	.625	.8554
	11	.120	.416	.6869		$\frac{5}{32}$	.156	.531	1.146
$1\frac{1}{16}$	24	.022	.643	.1565					
	23	.025	.638	.1770	$\frac{7}{8}$	24	.022	.831	.2004
	22	.028	.631	.1974		22	.028	.819	.2533
	21	.032	.624	.2242		21	.032	.811	.2881
	20	.035	.617	.2441		20	.035	.805	.3140
	18	.049	.589	.3344		19	.042	.791	.3737
	17	.058	.571	.3902		18	.049	.777	.4323
	16	.065	.557	.4325		17	.058	.759	.5061
	14	.083	.521	.5363		16	.065	.745	.5623
	13	.095	.497	.6017		14	.083	.709	.7021
	12	.109	.469	.6740		13	.095	.685	.7914
	11	.120	.447	.7279		12	.109	.657	.8917
	10	.134	.419	.7928		11	.120	.635	.9676
	$\frac{5}{32}$	.156	.375	.8864		10	.134	.607	1.060
	$\frac{3}{16}$	.187	.312	1.004		$\frac{5}{32}$	.156	.562	1.198
	$\frac{7}{32}$	.219	.250	1.097		$\frac{3}{16}$	.187	.500	1.379
						$\frac{7}{32}$	.219	.437	1.534
$\frac{3}{4}$	24	.022	.706	.1711		$\frac{1}{4}$	.250	.375	1.669
	22	.028	.694	.2159		$\frac{9}{32}$	.281	.313	1.783
						$\frac{5}{16}$	.313	.250	1.879

STEEL
TUBINGWIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

(Continued on following page)

SEAMLESS STEEL TUBING**COLD DRAWN MECHANICAL****LOW CARBON**

Lengths—5 to 24 Feet, Random

(Continued from preceding page)

Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
1 5/16	24	.022	.894	.2152	1 1/16	7/32	.219	.625	1.974
	22	.028	.881	.2721		1/4	.250	.562	2.171
	20	.035	.867	.3375		9/32	.281	.500	2.347
	18	.049	.839	.4652		5/16	.313	.437	2.507
	17	.058	.822	.5451		3/8	.375	.312	2.755
	16	.065	.807	.6060					
	14	.083	.771	.7579					
	13	.095	.747	.8553	1 1/8	24	.022	1.081	.2592
	12	.109	.719	.9651		22	.028	1.069	.3280
	11	.120	.697	1.048		21	.032	1.061	.3735
	10	.134	.669	1.151		20	.035	1.055	.4074
	5/32	.156	.625	1.303		18	.049	1.027	.5631
	3/16	.187	.562	1.506		17	.058	1.009	.6609
	7/32	.219	.500	1.682		16	.065	.995	.7359
	1/4	.250	.437	1.837		14	.083	.959	.9237
	5/16	.313	.313	2.089		13	.095	.935	1.045
						12	.109	.907	1.183
						11	.120	.885	1.288
						10	.134	.857	1.418
1	24	.022	.956	.2298		5/32	.156	.812	1.614
	22	.028	.944	.2907		3/16	.187	.750	1.881
	21	.032	.936	.3308		7/32	.219	.687	2.119
	20	.035	.930	.3607		1/4	.250	.625	2.330
	18	.049	.902	.4977		9/32	.281	.563	2.533
	17	.058	.884	.5836		5/16	.313	.500	2.714
	16	.065	.870	.6491		3/8	.375	.375	3.004
	15	.072	.856	.7136					
	14	.083	.834	.8129					
	13	.095	.810	.9182	1 3/16	22	.028	1.131	.3469
	12	.109	.782	1.037		21	.032	1.124	.3951
	11	.120	.760	1.128		20	.035	1.117	.4310
	10	.134	.732	1.239		18	.049	1.089	.5961
	5/32	.156	.687	1.406		16	.065	1.057	.7796
	8	.165	.670	1.470		14	.083	1.021	.7975
	3/16	.187	.625	1.630		13	.095	.997	1.109
	7/32	.219	.562	1.827		11	.120	.947	1.369
	1/4	.250	.500	2.003		5/32	.156	.875	1.719
	9/32	.281	.437	2.158		3/16	.187	.812	2.008
	5/16	.313	.375	2.297		7/32	.219	.750	2.266
	11/32	.344	.312	2.410		1/4	.250	.687	2.504
	3/8	.375	.250	2.503		9/32	.281	.626	2.722
						5/16	.313	.562	2.925
1 1/16	24	.022	1.018	.2446	1 1/4	24	.022	1.206	.2885
	22	.028	1.006	.3095		22	.028	1.194	.3654
	20	.035	.992	.3843		21	.032	1.186	.4163
	18	.049	.964	.5306		20	.035	1.180	.4542
	17	.058	.946	.6225		18	.049	1.152	.6285
	16	.065	.932	.6928		17	.058	1.134	.7384
	14	.083	.896	.8687		16	.065	1.120	.8226
	13	.095	.872	.9821		14	.083	1.084	1.034
	12	.109	.844	1.111		13	.095	1.060	1.172
	11	.120	.822	1.209		12	.109	1.032	1.328
	10	.134	.795	1.330		11	.120	1.010	1.448
	5/32	.156	.750	1.511		1/8	.125	1.000	1.502
	3/16	.187	.687	1.757		10	.134	.982	1.597

(Continued on following page)

DETROIT 12,
Twinbroo
Mail Box 148 I
13400 Mt. E

SEAMLESS STEEL TUBING

COLD DRAWN MECHANICAL



LOW CARBON

Lengths—5 to 24 Feet, Random

(Continued from preceding page)

Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
1 1/4	$\frac{5}{32}$	.156	.937	1.823	1 7/16	14	.083	1.271	1.201
	$\frac{3}{16}$	.187	.875	2.132		13	.095	1.247	1.363
	$\frac{7}{32}$	.219	.812	2.411		11	.120	1.197	1.689
	$\frac{1}{4}$	.250	.750	2.670		10	.134	1.170	1.866
	$\frac{9}{32}$	.281	.687	2.908		$\frac{5}{32}$	.156	1.125	2.136
	$\frac{5}{16}$	.313	.625	3.132		$\frac{3}{16}$	.187	1.062	2.510
	$\frac{11}{32}$	.344	.562	3.329		$\frac{7}{32}$	.219	1.000	2.851
	$\frac{3}{8}$	.375	.500	3.504		$\frac{1}{4}$	.250	.937	3.172
	$\frac{1}{16}$	.437	.375	3.798		$\frac{1}{2}$	.500	.438	5.009
1 5/16	22	.028	1.256	.3843	1 1/2	22	.028	1.444	.4402
	20	.035	1.242	.4777		21	.032	1.436	.5017
	18	.049	1.214	.6615		20	.035	1.430	.5476
	17	.058	1.197	.7774		18	.049	1.402	.7593
	16	.065	1.182	.8664		17	.058	1.384	.8932
	14	.083	1.146	1.090		16	.065	1.370	.9962
	13	.095	1.122	1.236		14	.083	1.334	1.256
	12	.109	1.094	1.402		13	.095	1.310	1.426
	11	.120	1.072	1.529		12	.109	1.282	1.619
	10	.134	1.044	1.687		11	.120	1.260	1.769
	9	.148	1.017	1.841		10	.134	1.232	1.955
	$\frac{5}{32}$	.156	1.000	1.928		$\frac{5}{32}$	.156	1.187	2.239
	$\frac{3}{16}$	.187	.937	2.259		$\frac{3}{16}$	.187	1.125	2.634
	$\frac{7}{32}$	.219	.875	2.559		$\frac{7}{32}$	.219	1.062	2.996
	$\frac{1}{4}$	.250	.812	2.838		$\frac{1}{4}$	.250	1.000	3.338
	$\frac{9}{32}$	.281	.750	3.097		$\frac{9}{32}$	.281	.938	3.658
	$\frac{5}{16}$	.313	.687	3.343		$\frac{5}{16}$	.313	.875	3.968
	$\frac{3}{8}$	.375	.562	3.757		$\frac{11}{32}$	.344	.812	4.247
						$\frac{3}{8}$	.375	.750	4.506
						$\frac{7}{16}$	.438	.625	4.968
1 3/8	24	.022	1.33	.3179		$\frac{1}{2}$	.500	.500	5.340
	22	.028	1.319	.4028					
	20	.035	1.305	.5009	1 1/16	20	.035	1.493	.5712
	18	.049	1.277	.6939		16	.065	1.432	1.040
	17	.058	1.259	.8158		14	.083	1.396	1.312
	16	.065	1.245	.9094		13	.095	1.372	1.489
	14	.083	1.209	1.145		12	.109	1.345	1.693
	13	.095	1.185	1.299		11	.120	1.322	1.849
	12	.109	1.157	1.474		10	.134	1.295	2.045
	11	.120	1.135	1.608		$\frac{5}{32}$	.156	1.250	2.344
	10	.134	1.107	1.776		$\frac{3}{16}$	.187	1.187	2.761
	$\frac{5}{32}$	.156	1.062	2.031		$\frac{7}{32}$	.219	1.124	3.144
	$\frac{11}{64}$	.172	1.031	2.210		$\frac{1}{2}$	.250	1.062	3.506
	$\frac{3}{16}$	.187	1.000	2.383		$\frac{3}{8}$	.375	.812	4.758
	$\frac{7}{32}$	.219	.937	2.704	1 1/8	22	.028	1.569	.4776
	$\frac{1}{4}$	.250	.875	3.004		20	.035	1.555	.5943
	$\frac{9}{32}$	.281	.813	3.283		18	.049	1.527	.8348
	$\frac{5}{16}$	.313	.750	3.550		17	.058	1.509	.9707
	$\frac{3}{8}$	.375	.625	4.005		16	.065	1.495	1.083
	$\frac{1}{16}$	.438	.499	4.383		14	.083	1.459	1.367
	$\frac{1}{2}$	.500	.375	4.673		13	.095	1.435	1.552
						12	.109	1.407	1.765
1 7/16	20	.035	1.367	.5244		11	.120	1.385	1.929
	18	.049	1.339	.7269		10	.134	1.357	2.134
	16	.065	1.307	.9531		$\frac{5}{32}$	.156	1.312	2.447

(Continued on following page)

WIRE DRILL ROD

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA

SEAMLESS STEEL TUBING**COLD DRAWN MECHANICAL****LOW CARBON****Lengths—5 to 24 Feet, Random**(Continued from preceding page)
Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
1 5/8	$\frac{3}{16}$	.187	1.250	2.885	1 7/8	$\frac{5}{32}$	.156	1.562	2.864
	$\frac{7}{32}$	.219	1.187	3.289		$\frac{3}{16}$	.187	1.500	3.387
	$\frac{1}{4}$	.250	1.125	3.671		$\frac{7}{32}$	.219	1.437	3.873
	$\frac{9}{32}$	.281	1.063	4.033		$\frac{1}{4}$	.250	1.375	4.339
	$\frac{5}{16}$	.313	1.000	4.386		$\frac{9}{32}$	.281	1.313	4.784
	$\frac{3}{8}$	.375	.875	5.006		$\frac{5}{16}$	.313	1.250	5.222
	$\frac{1}{16}$	.438	.749	5.553		$\frac{3}{8}$	.375	1.125	6.008
	$\frac{1}{2}$	.500	.625	6.008		$\frac{1}{16}$	.438	1.000	6.722
						$\frac{1}{2}$	.500	.875	7.343
1 11/16	16	.065	1.558	1.127		$\frac{9}{16}$	.563	.750	7.889
	11	.120	1.447	2.010		$\frac{5}{8}$	.625	.625	8.344
	$\frac{5}{32}$	.156	1.376	2.552	1 13/16	$\frac{1}{8}$	.125	1.688	2.420
	$\frac{3}{16}$	.187	1.312	3.012		$\frac{5}{32}$	.156	1.626	2.969
	$\frac{1}{4}$	.250	1.188	3.839		$\frac{7}{32}$	.219	1.499	4.021
	$\frac{3}{8}$	.375	.937	5.259		$\frac{1}{4}$	.250	1.437	4.507
1 3/4	22	.028	1.694	.5149	2	22	.028	1.944	.5897
	20	.035	1.680	.6411		20	.035	1.930	.7345
	19	.042	1.666	.7661		18	.049	1.902	1.021
	18	.049	1.652	.8902		16	.065	1.870	1.343
	17	.058	1.634	1.048		14	.083	1.834	1.699
	16	.065	1.620	1.170		13	.095	1.810	1.933
	14	.083	1.584	1.478		12	.109	1.782	2.201
	13	.095	1.560	1.679		11	.120	1.760	2.409
	12	.109	1.532	1.910		10	.134	1.732	2.670
	11	.120	1.510	2.089		$\frac{5}{32}$	.156	1.687	3.072
	10	.134	1.482	2.313		$\frac{3}{16}$	.187	1.625	3.638
	$\frac{5}{32}$	.156	1.437	2.656		$\frac{7}{32}$	.219	1.562	4.166
	8	.165	1.420	2.793		$\frac{1}{4}$	.250	1.500	4.673
	$\frac{3}{16}$	.187	1.375	3.136		$\frac{9}{32}$	.281	1.438	5.159
	$\frac{7}{32}$	.219	1.312	3.581		$\frac{5}{16}$	.313	1.375	5.639
	$\frac{1}{4}$	.250	1.250	4.005		$\frac{11}{32}$	.344	1.312	6.084
	$\frac{9}{32}$	.281	1.188	4.409		$\frac{3}{8}$	.375	1.250	6.508
	$\frac{5}{16}$	.313	1.125	4.804		$\frac{7}{16}$	.438	1.125	7.307
	$\frac{3}{8}$	.375	1.000	5.507		$\frac{1}{2}$	.500	1.000	8.010
	$\frac{7}{16}$	.438	.875	6.137		$\frac{9}{16}$	.563	.876	8.640
	$\frac{1}{2}$	.500	.750	6.675		$\frac{5}{8}$	.625	.750	9.178
	$\frac{9}{16}$	.563	.624	7.137		$\frac{3}{4}$	.750	.500	10.010
	$\frac{5}{8}$	.625	.500	7.509	2 1/16	16	.065	1.932	1.387
						11	.120	1.822	2.490
1 13/16	11	.120	1.572	2.170		$\frac{5}{16}$	.187	1.689	3.746
	$\frac{1}{8}$	.125	1.563	2.253		$\frac{1}{4}$	.250	1.562	4.841
	$\frac{5}{32}$	.156	1.501	2.761	2 1/8	20	.035	2.055	.7812
	$\frac{3}{16}$	.187	1.439	3.269		18	.049	2.027	1.086
	$\frac{7}{32}$	.219	1.375	3.728		16	.065	1.995	1.430
	$\frac{1}{4}$	.250	1.313	4.173		14	.083	1.959	1.810
1 7/8	20	.035	1.805	.6878		13	.095	1.935	2.060
	18	.049	1.777	.9556		11	.120	1.885	2.570
	16	.065	1.745	1.257		$\frac{5}{32}$	.156	1.812	3.281
	14	.083	1.709	1.589		$\frac{3}{16}$	.187	1.750	3.889
	13	.095	1.685	1.806		$\frac{7}{32}$	.219	1.687	4.458
	12	.109	1.657	2.056		$\frac{1}{4}$	.250	1.625	5.006
	11	.120	1.635	2.249		$\frac{9}{32}$	.281	1.563	5.534
	10	.134	1.607	2.492		$\frac{5}{16}$	.313	1.500	6.057

(Continued on following page)

DETROIT 12,
Twinbrook
Mail Box 148
13400 Mt. E

SEAMLESS STEEL TUBING

COLD DRAWN MECHANICAL

LOW CARBON

Lengths—5 to 24 Feet, Random

(Continued from preceding page)
Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
2 1/8	$\frac{3}{8}$	.375	1.375	7.009	2 7/16	$\frac{1}{4}$	.250	1.937	5.842
	$\frac{7}{16}$	.438	1.250	7.892		$\frac{5}{16}$	.313	1.812	7.104
	$\frac{1}{2}$	.500	1.125	8.678	2 1/2	20	.035	2.430	.9214
	$\frac{9}{16}$	.563	1.000	9.392		18	.049	2.402	1.283
	$\frac{5}{8}$	.625	.875	10.01		16	.065	2.370	1.690
2 3/16	13	.095	1.997	2.124		14	.083	2.334	2.143
	$\frac{1}{4}$	.250	1.688	5.174		13	.095	2.310	2.440
2 1/4	20	.035	2.180	.8280		12	.109	2.282	2.783
	18	.049	2.152	1.152		11	.120	2.260	3.050
	16	.065	2.120	1.517		$\frac{1}{8}$	.125	2.250	3.171
	14	.083	2.084	1.921		10	.134	2.232	3.386
	13	.095	2.060	2.186		$\frac{5}{32}$	.156	2.187	3.905
	12	.109	2.032	2.492		$\frac{3}{16}$	.187	2.125	4.642
	11	.120	2.010	2.730		$\frac{7}{32}$	.219	2.062	5.335
	10	.134	1.982	3.028		$\frac{1}{4}$	.250	2.000	6.008
	$\frac{5}{32}$	.156	1.937	3.489		$\frac{9}{32}$	.281	1.937	6.659
	$\frac{3}{16}$	.187	1.875	4.140		$\frac{5}{16}$	.313	1.875	7.311
	$\frac{7}{32}$	.219	1.812	4.750		$\frac{11}{32}$	.344	1.812	7.921
	$\frac{1}{4}$	.250	1.750	5.340		$\frac{3}{8}$	.375	1.750	8.511
	$\frac{9}{32}$	.281	1.688	5.909		$\frac{7}{16}$	.438	1.625	9.646
	$\frac{5}{16}$	.313	1.625	6.475		$\frac{1}{2}$	.500	1.500	10.68
	$\frac{11}{32}$	.344	1.562	7.002		$\frac{9}{16}$	.563	1.375	11.65
	$\frac{3}{8}$	.375	1.500	7.509		$\frac{5}{8}$	.625	1.250	12.52
	$\frac{7}{16}$	.438	1.375	8.476		$\frac{3}{4}$	.750	1.000	14.020
	$\frac{1}{2}$	.500	1.250	9.345	2 9/16	$\frac{1}{4}$	.250	2.062	6.176
	$\frac{9}{16}$	.563	1.124	10.14	2 5/8	16	.065	2.495	1.777
	$\frac{5}{8}$	.625	1.000	10.85		13	.095	2.435	2.567
	$\frac{3}{4}$	.750	.750	12.020		11	.120	2.385	3.210
2 5/16	$\frac{3}{16}$	.187	1.939	4.245		$\frac{5}{32}$	.156	2.312	4.114
	$\frac{7}{32}$	.219	1.875	4.898		$\frac{3}{16}$	.187	2.250	4.893
	$\frac{1}{4}$	.250	1.813	5.508		$\frac{7}{32}$	.219	2.187	5.627
2 3/8	20	.035	2.305	.8747		$\frac{1}{4}$	.250	2.125	6.341
	18	.049	2.277	1.217		$\frac{9}{32}$	.281	2.063	7.035
	16	.065	2.245	1.604		$\frac{5}{16}$	.313	2.000	7.729
	14	.083	2.209	2.032		$\frac{3}{8}$	.375	1.875	9.011
	13	.095	2.185	2.313		$\frac{7}{16}$	.438	1.751	10.23
	11	.120	2.135	2.890		$\frac{1}{2}$	.500	1.625	11.35
	$\frac{5}{32}$	.156	2.062	3.697		$\frac{9}{16}$	.563	1.501	12.40
	$\frac{3}{16}$	.187	2.000	4.391		$\frac{5}{8}$	.625	1.375	13.350
	$\frac{7}{32}$	.219	1.937	5.043	2 11/16	11	.120	2.447	3.291
	$\frac{1}{4}$	.250	1.875	5.674		$\frac{5}{16}$	.313	2.061	7.939
	$\frac{9}{32}$	.281	1.813	6.284	2 5/4	18	.049	2.652	1.413
	$\frac{5}{16}$	.313	1.750	6.893		16	.065	2.620	1.864
	$\frac{3}{8}$	.375	1.625	8.010		14	.083	2.584	2.364
	$\frac{7}{16}$	.438	1.500	9.061		13	.095	2.560	2.694
	$\frac{1}{2}$	.500	1.375	10.010		12	.109	2.530	3.074
	$\frac{9}{16}$	.563	1.249	10.900		11	.120	2.510	3.371
	$\frac{5}{8}$	.625	1.125	11.680		$\frac{5}{32}$	.156	2.437	4.322
						$\frac{3}{16}$	.187	2.375	5.144
						$\frac{7}{32}$	.219	2.312	5.920

(Continued on following page)

WIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

SEAMLESS STEEL TUBING**COLD DRAWN MECHANICAL****LOW CARBON**

Lengths—5 to 24 Feet, Random

Tolerance, Page 109.

(Continued from preceding page)

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
2 3/4	1/4	.250	2.250	6.675	3 1/16	5/16	.313	2.437	9.193
	9/32	.281	2.188	7.410		3/8	.375	2.313	10.77
	5/16	.313	2.125	8.147	3 1/8	16	.065	2.995	2.124
	11/32	.344	2.062	8.839		13	.095	2.935	3.074
	3/8	.375	2.000	9.512		11	.120	2.885	3.851
	7/16	.437	1.875	10.82		5/16	.187	2.750	5.897
	1/2	.500	1.750	12.02		7/32	.219	2.687	6.797
	9/16	.563	1.625	13.15		1/4	.250	2.625	7.676
	5/8	.625	1.500	14.18		5/16	.313	2.500	9.400
	11/16	.688	1.374	15.15		3/8	.375	2.375	11.01
	3/4	.750	1.250	16.02		7/16	.438	2.250	12.57
	7/8	.875	1.000	17.520		1/2	.500	2.125	14.020
	1	1.000	.750	18.690		9/16	.563	2.000	15.40
2 13/16	1/4	.250	2.313	6.843		5/8	.625	1.875	16.690
	5/16	.313	2.186	8.357		3/4	.750	1.625	19.02
2 7/8	16	.065	2.745	1.951		7/8	.875	1.375	21.030
	13	.095	2.685	2.821	3 1/4	16	.065	3.120	2.211
	11	.120	2.635	3.531		14	.083	3.084	2.807
	5/32	.156	2.563	4.530		13	.095	3.060	3.201
	3/16	.187	2.500	5.395		11	.120	3.010	4.01
	7/32	.219	2.437	6.212		1/8	.125	3.000	4.172
	1/4	.250	2.375	7.009		5/32	.156	2.937	5.155
	9/32	.281	2.313	7.785		3/16	.187	2.875	6.148
	5/16	.313	2.250	8.564		7/32	.219	2.812	7.089
	3/8	.375	2.125	10.010		1/4	.250	2.750	8.010
	7/16	.438	2.001	11.40		9/32	.281	2.688	8.910
	1/2	.500	1.875	12.68		5/16	.313	2.625	9.818
	9/16	.563	1.751	13.90		11/32	.344	2.562	10.68
	5/8	.625	1.625	15.020		3/8	.375	2.500	11.51
	3/4	.750	1.375	17.02		7/16	.438	2.376	13.150
15/3	3	18	.049	2.902	15/32	.469	2.312	13.93	
	16	.065	2.870	2.037		1/2	.500	2.250	14.69
	14	.083	2.834	2.586		9/16	.563	2.126	16.16
	13	.095	2.810	2.947		5/8	.625	2.000	17.52
	12	.109	2.782	3.365		3/4	.750	1.750	20.030
	11	.120	2.760	3.691		7/8	.875	1.500	22.190
	5/32	.156	2.687	4.738		1	1.000	1.250	24.030
	3/16	.187	2.625	5.646					
	7/32	.219	2.562	6.505					
	1/4	.250	2.500	7.343	3 3/8	16	.065	3.245	2.298
	9/32	.281	2.437	8.160		13	.095	3.185	3.328
	5/16	.313	2.375	8.982		11	.120	3.135	4.172
	11/32	.344	2.312	9.758		5/32	.156	3.063	5.363
	3/8	.375	2.250	10.51		3/16	.187	3.000	6.399
	7/16	.438	2.125	11.98		1/4	.250	2.875	8.344
	15/32	.469	2.062	12.68		5/16	.313	2.750	10.24
	1/2	.500	2.000	13.35		3/8	.375	2.625	12.020
	9/16	.563	1.875	14.65		7/16	.438	2.501	13.74
	5/8	.625	1.750	15.85		1/2	.500	2.375	15.350
	11/16	.688	1.625	16.99		9/16	.563	2.249	16.91
	3/4	.750	1.500	18.02		5/8	.625	2.125	18.360
	7/8	.875	1.250	19.860		3/4	.750	1.875	21.030
	1	1.000	1.000	21.360	3 1/2	18	.049	3.402	1.806
ETROIT 12	Twinbroc								
Mail Box 148									
13400 Mt. E									

(Continued on following page)

SEAMLESS STEEL TUBING

COLD DRAWN MECHANICAL

LOW CARBON

Lengths—5 to 24 Feet, Random

(Continued from preceding page)

Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
3½	16	.065	3.370	2.385	3¾	5/16	.313	3.249	11.91
14	.083	3.334	3.029		3/8	.375	3.125	14.02	
13	.095	3.310	3.455		1/16	.438	3.000	16.08	
11	.120	3.260	4.332		1/2	.500	2.875	18.020	
10	.134	3.232	4.817		9/16	.563	2.750	19.91	
5/32	.156	3.188	5.571		5/8	.625	2.625	21.69	
3/16	.187	3.125	6.650	4	16	.065	3.870	2.732	
7/32	.219	3.062	7.674		14	.083	3.834	3.472	
1/4	.250	3.000	8.678		13	.095	3.810	3.962	
9/32	.281	2.938	9.660		11	.120	3.760	4.973	
5/16	.313	2.875	10.65		1/8	.125	3.750	5.173	
11/32	.344	2.812	11.590		5/32	.156	3.687	6.404	
3/8	.375	2.750	12.52		3/16	.187	3.625	7.654	
7/16	.438	2.626	14.32		7/32	.219	3.562	8.843	
1/2	.500	2.500	16.02		1/4	.250	3.500	10.01	
9/16	.563	2.374	17.66		9/32	.281	3.438	11.16	
5/8	.625	2.250	19.19		5/16	.313	3.375	12.33	
3/4	.750	2.000	22.03		3/8	.375	3.250	14.52	
7/8	.875	1.750	24.530		7/16	.438	3.126	16.66	
1	1.000	1.500	26.700		15/32	.469	3.062	17.68	
					1/2	.500	3.000	18.69	
3 5/8	16	.065	3.495	2.471		9/16	.563	2.875	20.67
11	.120	3.385	4.492		5/8	.625	2.750	22.53	
9/16	.187	3.250	6.901		3/4	.750	2.500	26.03	
1/4	.250	3.125	9.011		7/8	.875	2.250	29.20	
5/16	.313	3.000	11.07		1	1.000	2.000	32.04	
3/8	.375	2.875	13.02		1 1/4	1.250	1.500	36.71	
7/16	.438	2.750	14.91	4 1/8	11	.120	3.885	5.133	
1/2	.500	2.625	16.690		3/16	.187	3.751	7.905	
9/16	.563	2.499	18.41		1/4	.250	3.625	10.350	
5/8	.625	2.375	20.030		5/16	.313	3.500	12.74	
3/4	.750	2.125	23.03		3/8	.375	3.375	15.020	
					7/16	.438	3.249	17.25	
3 3/4	13	.095	3.560	3.708		1/2	.500	3.125	19.360
11	.120	3.510	4.652		9/16	.563	2.999	21.42	
10	.134	3.482	5.175		5/8	.625	2.875	23.36	
5/32	.156	3.437	5.988	4 1/4	13	.095	4.060	4.216	
3/16	.187	3.375	7.152		11	.120	4.010	5.29	
7/32	.219	3.312	8.259		5/32	.156	3.937	6.821	
1/4	.250	3.250	9.34		3/16	.187	3.875	8.156	
9/32	.281	3.188	10.41		1/4	.250	3.750	10.68	
5/16	.313	3.125	11.49		5/16	.313	3.625	13.16	
11/32	.344	3.062	12.510		11/32	.344	3.562	14.35	
3/8	.375	3.000	13.520		3/8	.375	3.500	15.52	
1/4	.438	2.875	15.49		7/16	.438	3.375	17.83	
9/16	.500	2.750	17.36		1/2	.500	3.250	20.02	
5/8	.563	2.624	19.16		9/16	.563	3.124	22.17	
3/4	.625	2.500	20.86		5/8	.625	3.000	24.20	
11/16	.688	2.374	22.50		11/16	.688	2.874	26.17	
3/4	.750	2.250	24.030		3/4	.750	2.750	28.04	
7/8	.875	2.000	26.870		7/8	.875	2.500	31.54	
1	1.000	1.750	29.370		1	1.000	2.250	34.710	
3 5/8	11	.120	3.635	4.812	4 3/8	3/16	.187	4.001	8.407
9/16	.187	3.500	7.403		1/4	.250	3.875	11.010	
1/4	.250	3.375	9.679						

(Continued on following page)

WIRE DRILL ROD

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA

SEAMLESS STEEL TUBING

COLD DRAWN MECHANICAL



LOW CARBON

Lengths—5 to 24 Feet, Random



(Continued from preceding page)

Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
4 3/8	$\frac{5}{16}$	.313	3.749	13.58	5	$\frac{5}{32}$	.156	4.687	8.070
	$\frac{3}{8}$	.375	3.625	16.020		$\frac{3}{16}$	.187	4.625	9.662
	$\frac{7}{16}$	.438	3.500	18.42		$\frac{1}{4}$	.250	4.500	12.68
	$\frac{1}{2}$	.500	3.375	20.690		$\frac{5}{16}$	.313	4.375	15.67
	$\frac{5}{8}$	.625	3.125	25.03		$\frac{3}{8}$	.375	4.250	18.52
	$\frac{3}{4}$	.750	2.875	29.04		$\frac{7}{16}$	.438	4.124	21.34
						$\frac{1}{2}$	.500	4.000	24.03
4 1/2	13	.095	4.310	4.469		$\frac{9}{16}$	.563	3.876	26.68
	11	.120	4.260	5.613		$\frac{5}{8}$	.625	3.750	29.200
	$\frac{5}{32}$	.156	4.188	7.237		$\frac{3}{4}$	.750	3.500	34.04
	$\frac{3}{16}$	.187	4.125	8.658		$\frac{7}{8}$	.875	3.250	38.550
	$\frac{7}{32}$	.219	4.062	10.01		1	1.000	3.000	42.720
	$\frac{1}{4}$	.250	4.000	11.35		$1\frac{1}{4}$	1.250	2.500	50.06
	$\frac{5}{16}$	.313	3.875	14.00					
	$\frac{3}{8}$	.375	3.750	16.52	5 1/8	$\frac{5}{16}$	.313	4.501	16.09
	$\frac{7}{16}$	.438	3.624	19.00		$\frac{1}{2}$	.500	4.125	24.700
	$\frac{1}{2}$	.500	3.500	21.36		$\frac{5}{8}$	.625	3.875	30.040
	$\frac{9}{16}$	.563	3.375	23.67		1	1.000	3.125	44.060
	$\frac{5}{8}$	.625	3.250	28.87	5 1/4	11	.120	5.010	6.575
	$\frac{11}{16}$	.688	3.125	28.01		$\frac{3}{16}$	.187	4.875	10.16
	$\frac{3}{4}$	.750	3.000	30.04		$\frac{1}{4}$	.250	4.750	13.35
	$\frac{7}{8}$	.875	2.750	33.880		$\frac{5}{16}$	.313	4.625	16.50
	1	1.000	2.500	37.380		$\frac{3}{8}$	.375	4.500	19.520
	$1\frac{1}{4}$	1.250	2.00	43.39		$\frac{1}{2}$	.500	4.250	25.37
4 5/8	$\frac{3}{16}$	.187	4.251	8.909		$\frac{5}{8}$	.625	4.000	30.870
	$\frac{1}{4}$	.250	4.125	11.68		$\frac{3}{4}$	.750	3.750	36.05
	$\frac{5}{16}$	.313	3.999	14.41		$\frac{7}{8}$	.875	3.500	40.88
	$\frac{11}{32}$	.344	3.937	15.73		1	1.000	3.250	45.390
	$\frac{3}{8}$	.375	3.875	17.02	5 1/2	10	.134	5.232	7.679
	$\frac{7}{16}$	.438	3.749	19.59		$\frac{3}{16}$	.187	5.125	10.67
	$\frac{1}{2}$	.500	3.625	22.03		$\frac{1}{4}$	.250	5.000	14.02
	$\frac{5}{8}$	.625	3.375	26.70		$\frac{5}{16}$	.313	4.875	17.34
4 3/4	13	.095	4.560	4.723		$\frac{3}{8}$	.375	4.750	20.530
	11	.120	4.510	5.934		$\frac{7}{16}$	.438	4.624	23.68
	$\frac{3}{16}$	.187	4.376	9.160		$\frac{1}{2}$	.500	4.500	26.70
	$\frac{1}{4}$	.250	4.250	12.020		$\frac{5}{8}$	.625	4.250	32.540
	$\frac{5}{16}$	.313	4.125	14.83		$\frac{3}{4}$	.750	4.000	38.050
	$\frac{3}{8}$	.375	4.000	17.520		$\frac{7}{8}$	.875	3.750	43.220
	$\frac{7}{16}$	.438	3.874	20.17		1	1.000	3.500	48.060
	$\frac{1}{2}$	.500	3.750	22.70	5 5/8	$\frac{5}{16}$	.313	5.001	17.76
	$\frac{9}{16}$	.563	3.624	25.18		$\frac{3}{8}$	.375	4.875	21.03
	$\frac{5}{8}$	.625	3.500	27.53		$\frac{5}{16}$	.625	4.375	33.380
	$\frac{3}{4}$	.750	3.250	32.040	5 3/4	11	.120	5.510	7.215
	$\frac{7}{8}$	.875	3.000	36.210		$\frac{3}{16}$	.187	5.375	11.17
	1	1.000	2.750	40.050		$\frac{1}{4}$	.250	5.250	14.690
DETROIT 12						$\frac{5}{16}$	.313	5.125	18.18
Twinbro						$\frac{3}{8}$	.375	5.000	21.530
Mail Box 148						$\frac{1}{2}$	.500	4.750	28.040
13400 Mt.						$\frac{5}{8}$	.625	4.500	34.210
	4 7/8	$\frac{1}{4}$	.250	4.375	12.35	$\frac{3}{4}$	.750	4.250	40.050
	$\frac{7}{16}$	.438	3.999	20.76					
	$\frac{1}{2}$	.500	3.875	23.360					
	5	11	.120	4.760	6.254				
	10	.134	4.732	6.964					

(Continued on following page)

SEAMLESS STEEL TUBING**COLD DRAWN MECHANICAL**

LOW CARBON

Lengths—5 to 24 Feet, Random

(Continued from preceding page)

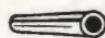
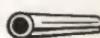
Tolerance, Page 109.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Foot Lbs.
5 1/4	$\frac{1}{8}$	.875	4.000	45.560	7 1/4	$\frac{1}{4}$	.250	6.750	18.69
1	1.000	3.750	50.730		$\frac{3}{8}$	.375	6.500	27.53	
6	$\frac{11}{16}$	.120	5.760	7.536		$\frac{1}{2}$	.500	6.250	36.05
	$\frac{3}{16}$	.187	5.625	11.67		$\frac{5}{8}$	.625	6.000	44.22
	$\frac{1}{4}$	.250	5.500	15.35		$\frac{3}{4}$	.750	5.750	52.07
	$\frac{3}{8}$	.375	5.250	22.530	7 1/2	$\frac{1}{4}$	.250	7.000	19.360
	$\frac{1}{2}$	.500	5.000	29.37		$\frac{3}{8}$	.375	6.750	28.540
	$\frac{9}{16}$	.562	4.876	32.69		$\frac{1}{2}$	.500	6.500	37.380
	$\frac{5}{8}$	.625	4.750	35.88		$\frac{5}{8}$	.625	6.250	45.89
	$\frac{3}{4}$	.750	4.500	42.050		$\frac{3}{4}$	.750	6.000	54.070
	$\frac{7}{8}$	.875	4.250	47.890	1	1.000	5.500	69.42	
	1	1.000	4.000	53.400	7 3/4	$\frac{1}{4}$	.250	7.250	20.03
	$1\frac{1}{2}$	1.500	3.000	72.09		$\frac{3}{8}$	.375	7.000	29.54
						$\frac{13}{32}$	.406	6.937	31.85
6 1/4	$\frac{11}{16}$	.120	6.010	7.856		$\frac{1}{2}$	.500	6.750	38.72
	$\frac{3}{16}$	.187	5.876	12.17		$\frac{3}{4}$	.750	6.250	56.07
	$\frac{1}{4}$	.250	5.750	16.020	1	1.000	5.750	72.09	
	$\frac{5}{16}$	.313	5.624	19.85	8	$\frac{1}{4}$	.250	7.500	20.69
	$\frac{3}{8}$	.375	5.500	23.530		$\frac{3}{8}$	.375	7.250	30.54
	$\frac{1}{2}$	.500	5.250	30.71		$\frac{1}{2}$	.500	7.000	40.05
	$\frac{5}{8}$	.625	5.000	37.550		$\frac{5}{8}$	.625	6.750	49.23
	$\frac{3}{4}$	.750	4.750	44.060		$\frac{3}{4}$	.750	6.500	58.07
	$\frac{7}{8}$	.875	4.500	50.23	1	1.000	6.000	74.76	
	1	1.000	4.250	56.070	8 1/4	$\frac{1}{4}$	.250	7.750	21.36
						$\frac{1}{2}$	.500	7.250	41.39
6 1/2	$\frac{1}{4}$	.250	6.000	16.690		$\frac{7}{8}$	.875	6.500	68.92
	$\frac{3}{8}$	.375	5.750	24.530	8 1/2	$\frac{1}{4}$	.250	8.000	22.03
	$\frac{1}{2}$	.500	5.500	32.040		$\frac{3}{8}$	.375	7.750	32.54
	$\frac{5}{8}$	.625	5.250	39.22		$\frac{1}{2}$	.500	7.500	42.72
	$\frac{11}{16}$	.688	5.124	42.71		$\frac{3}{4}$	.750	7.000	62.08
	$\frac{3}{4}$	.750	5.000	46.060	1	1.000	6.500	80.10	
	$\frac{7}{8}$	.875	4.750	52.57	8 3/4	$\frac{3}{8}$	.375	8.000	33.54
	1	1.000	4.500	58.740		$\frac{1}{2}$	.500	7.750	44.06
					9	$\frac{1}{4}$	.250	8.500	23.360
6 5/8	$\frac{3}{16}$	.187	6.251	13.92		$\frac{3}{8}$	.375	8.250	34.54
						$\frac{1}{2}$	.500	8.000	45.390
6 3/4	$\frac{1}{4}$	.250	6.250	17.36	9 1/2	$\frac{1}{4}$	.250	9.000	24.70
	$\frac{3}{8}$	.375	6.000	25.530		$\frac{1}{2}$	.500	8.500	48.06
	$\frac{1}{2}$	.500	5.750	33.380	10	$\frac{1}{4}$	.250	9.500	26.03
	$\frac{5}{8}$	.625	5.500	40.88		$\frac{1}{2}$	.500	9.000	50.73
	$\frac{3}{4}$	.750	5.250	48.060	1	1.000	8.000	96.12	
	$\frac{7}{8}$	.875	5.000	54.90	10 1/2	$\frac{1}{4}$	.250	10.000	27.37
	1	1.000	4.750	61.41		$\frac{1}{2}$	.500	9.500	53.40
7	$\frac{3}{16}$	.187	6.625	13.68	10 3/4	$\frac{3}{8}$	.375	10.000	41.55
	$\frac{1}{4}$	.250	6.500	18.02		$\frac{1}{2}$	.500	9.730	54.74
	$\frac{3}{8}$	.375	6.250	26.530	12	$\frac{3}{8}$	.375	11.250	46.560
	$\frac{1}{2}$	.500	6.000	34.710		$\frac{1}{2}$	.500	11.000	61.41
	$\frac{5}{8}$	.625	5.750	42.55	1	1.000	10.000	117.48	
	$\frac{3}{4}$	.750	5.500	50.060					
	1	1.000	5.000	64.080					

WIRE
DRILL RODSTAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

COLD DRAWN WELDED TUBING**MANDREL DRAWN**

Close Tolerance I.D.

Pressure Tested to 1000 Lbs. P.S.I.

Random Lengths 17 to 24 Ft.

Size O.D.	Size I.D. and Tolerance	Wt. Per Ft. Lbs.	Size O.D.	Size I.D. and Tolerance	Wt. Per Ft. Lbs.
1½	1¼ (± .003)	1.836	2¾	2½ (± .005)	3.504
1¾	1½ (± .003)	2.169	2⅝	2½ (± .005)	5.395
2	1¾ (± .003)	2.503	3	2¾ (± .005)	3.838
2¼	2 (± .004)	2.837	3¼	3 (± .006)	4.172
2⅜	2 (± .004)	4.391	3⅝	3 (± .006)	6.399
2½	2¼ (± .004)	3.171	3⅞	3½ (± .006)	7.403
2⅝	2¾ (± .005)	3.338			

HYDRAULIC STEEL TUBING**COLD DRAWN SEAMLESS**

Bright Finish

S.A.E.—1010 Dead Soft Annealed

Random Lengths—12 to 15 Ft.

Slushed With Light Oil—Pressure Tested, 1000 P.S.I.

Tensile Strength 55,000 P.S.I. Max.

Meets or Exceeds JOINT INDUSTRY CONFERENCE
(J.I.C.) Standards for Industrial Hydraulic Installations

O.D.	B.W.G.	Wall Dec.	I.D.	Weight per Ft. Lbs.	O.D.	B.W.G.	Wall Dec.	I.D.	Weight per Ft. Lbs.
1/8	22	.028	.069	.0290	1/2	15	.072	.356	.3291
3/16	22	.028	.132	.0478	5/8	20	.035	.555	.2705
	20	.035	.117	.0572		18	.049	.527	.3014
	18	.049	.090	.0727		16	.065	.495	.3888
1/4	20	.035	.180	.0804		14	.083	.459	.4800
	18	.049	.152	.1052	3/4	20	.035	.680	.2673
5/16	20	.035	.242	.1039		18	.049	.652	.3668
	18	.049	.215	.1382		16	.065	.620	.4755
3/8	20	.035	.305	.1271		13	.095	.560	.6646
	18	.049	.277	.1706		12	.109	.532	.7462
	17	.058	.259	.1964	7/8	18	.049	.777	.4323
	16	.065	.245	.2152		16	.065	.745	.5623
7/16	20	.035	.368	.1506	1	18	.049	.902	.4977
	18	.049	.277	.1706		16	.065	.870	.6491
	16	.065	.308	.2589	1 1/8	13	.095	.935	1.045
1/2	20	.035	.430	.1738	1 1/4	16	.065	1.120	.8226
	18	.049	.402	.2360		13	.095	1.060	1.172
	16	.065	.370	.3020	1 1/2	16	.065	1.370	.9962
						13	.095	1.310	1.4260

DETROIT 12,
Twinbroo
Mail Box 148 I
13400 Mt. E

ELECTRIC WELDED STEEL TUBING

Mechanical
LOW CARBON



COLD ROLLED and HOT ROLLED
Bright Finish

Lengths—3 to 24 Feet, Random

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Ft. lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Ft. lbs.
$\frac{1}{4}$	16	.065	.120	.1284	$1\frac{3}{16}$	20	.035	1.117	.4310
$\frac{5}{16}$	18	.049	.214	.1382		18	.049	1.089	.5961
$\frac{3}{8}$	22	.028	.319	.1038	$1\frac{1}{4}$	22	.028	1.194	.3654
	18	.049	.277	.1706		20	.035	1.180	.4542
	20	.035	.305	.1271		18	.049	1.152	.6285
	16	.065	.245	.2152		16	.065	1.120	.8225
$\frac{1}{2}$	22	.028	.444	.1411		14	.083	1.084	1.034
	20	.035	.430	.1738	$1\frac{3}{8}$	20	.035	1.305	.5004
	18	.049	.402	.2360		18	.049	1.277	.6939
	16	.065	.370	.3020		16	.065	1.245	.9094
$\frac{9}{16}$	20	.035	.492	.1974		14	.083	1.209	1.145
	18	.049	.464	.2690	$1\frac{1}{2}$	20	.035	1.430	.5476
	16	.065	.432	.3457		18	.049	1.402	.7593
$\frac{5}{8}$	24	.022	.581	.1417		16	.065	1.370	.9962
	22	.028	.569	.1785		14	.083	1.334	1.256
	20	.035	.555	.2205		11	.120	1.260	1.769
	18	.049	.527	.3014	$1\frac{5}{8}$	20	.035	1.555	.5944
	16	.065	.495	.3888		18	.049	1.527	.8248
$1\frac{1}{16}$	22	.028	.631	.1974		16	.065	1.495	1.083
	20	.035	.617	.2441		14	.083	1.459	1.367
	18	.049	.589	.3344		11	.120	1.385	1.929
	16	.065	.557	.4325		10	.134	1.357	2.134
$\frac{3}{4}$	22	.028	.694	.2159	$1\frac{3}{4}$	20	.035	1.680	.6412
	20	.035	.680	.2673		18	.049	1.652	.8902
	18	.049	.650	.3668		16	.065	1.620	1.170
	16	.065	.620	.4255		14	.083	1.584	1.478
$\frac{7}{8}$	20	.035	.805	.3140		11	.120	1.510	2.089
	18	.049	.777	.4323	$1\frac{7}{8}$	20	.035	1.805	.6878
	16	.065	.745	.5623		18	.049	1.777	.9556
	14	.083	.709	.7021		16	.065	1.745	1.257
$1\frac{1}{2}$	22	.028	.944	.2907		14	.083	1.709	1.589
	20	.035	.930	.3607		11	.120	1.635	2.249
	18	.049	.902	.4977	2	20	.035	1.930	.7345
	16	.065	.870	.6491		18	.049	1.902	1.021
	14	.083	.834	.8129		16	.065	1.870	1.343
	13	.095	.810	.9182		14	.083	1.834	1.699
$1\frac{1}{8}$	22	.028	1.069	.3280		11	.120	1.760	2.409
	20	.035	1.055	.4074	$2\frac{1}{8}$	20	.035	2.055	.7813
	18	.049	1.027	.5631		18	.049	2.027	1.086
	16	.065	.995	.7359		16	.065	1.995	1.430
	14	.083	.959	.9237		14	.083	1.959	1.810

(Continued on following page)

WIRE
DRILL ROD

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

ELECTRIC WELDED STEEL TUBING



Mechanical
LOW CARBON



COLD ROLLED and HOT ROLLED

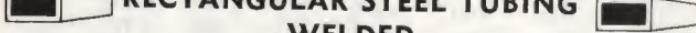
Bright Finish

Lengths—3 to 24 Feet, Random

(Continued from preceding page)

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Ft. lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Ft. lbs.
2 1/4	20	.035	2.180	.8280	3	1/8	.125	2.750	3.838
	18	.049	2.152	1.152	3 1/8	16	.065	2.995	2.124
	16	.065	2.120	1.517		14	.083	2.959	2.697
	14	.083	2.084	1.921	3 1/4	16	.065	3.120	2.211
	11	.120	2.010	2.730		11	.120	3.010	4.011
2 5/8	18	.049	2.277	1.217	3 1/2	16	.065	3.370	2.385
	16	.065	2.245	1.604		14	.083	3.334	3.029
	14	.083	2.209	2.032		11	.120	3.260	4.332
	18	.049	2.402	1.283		1/8	.125	3.250	4.506
2 1/2	16	.065	2.370	1.690		5/16	.187	3.125	6.650
	14	.083	2.334	2.143		11	.120	3.510	4.652
	13	.095	2.310	2.440		7	.180	3.390	6.863
	11	.120	2.260	3.050	3 5/8	16	.065	3.495	3.471
	18	.049	2.528	1.348	3 3/4	16	.065	3.620	2.558
2 5/8	16	.065	2.495	1.777	4	16	.065	3.870	2.732
	18	.049	2.652	1.414		14	.083	3.834	3.472
	16	.065	2.620	1.864		1/8	.125	3.750	5.173
	14	.083	2.584	2.364		5/16	.187	3.625	7.654
2 7/8	11	.120	2.510	3.371	4 1/2	1/8	.125	4.250	5.841
	18	.049	2.777	1.479		3/16	.187	4.125	8.658
	16	.065	2.745	1.951		5	1/8	4.750	6.508
	18	.049	2.902	1.544		3/16	.187	4.625	9.662
3	16	.065	2.870	2.038	6	1/8	.125	5.750	7.843
	14	.083	2.834	2.586		5/16	.187	5.625	11.67
	11	.120	2.760	3.691					
	18	.049	2.962	1.544					

RECTANGULAR STEEL TUBING



WELDED



HOT ROLLED BRIGHT FINISH

LOW CARBON

Random Lengths—5 to 24 Feet

Size & Ga.	Wall Dec.	Wt. per Ft. Lbs.	Size & Ga.	Wall Dec.	Wt. per Ft. Lbs.
1 1/2 x 3/4 x 14	.083	1.176	3 x 1 1/2 x 11	(1/8") .120	3.476
	1 x 14	1.317	7 (3/16") .180	5.067	
2 x 1 x 14	.083	1.599	2 x 12	.109	3.544
			11 (1/8") .120	3.884	
3 x 1 1/2 x 12	.109	3.173	7 (3/16") .180	5.679	
4 x 2 x 7	(3/16") .180	6.900	4 x 2 x 5	(1/32") .220	8.320

SQUARE STEEL TUBING
WELDED
COLD ROLLED

LOW CARBON

Random Lengths—3 to 24 Feet

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Ft. Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Ft. Lbs.
$\frac{1}{2}$	20	.035	.430	.221	1	18	.049	.902	.634
	18	.049	.402	.301		16	.065	.870	.826
	16	.065	.370	.384	$1\frac{1}{4}$	20	.035	1.180	.578
$\frac{5}{8}$	18	.049	.527	.384		18	.049	1.152	.800
	16	.065	.495	.495		16	.065	1.120	1.048
$\frac{3}{4}$	20	.035	.680	.340	$1\frac{1}{2}$	18	.049	1.402	.967
	18	.049	.652	.467		16	.065	1.370	1.268
	16	.065	.620	.605	$1\frac{3}{4}$	16	.065	1.620	1.489
$\frac{7}{8}$	18	.049	.777	.550	2	16	.065	1.870	1.710
	16	.065	.745	.716		...	...	....	....
1	20	.035	.930	.459					

E
lastic
Wire

GAGE
CIMAL

.004
.005
.006
.007
.008
.009
.010
.011
.012
.013
.014
.016
.018
.020
.022
.024
.026
.029
.031
.033

.035
.037
.039
.041
.043
.045
.047
.049
.051
.055

.059
.063
.067
.071
.075

.080
.085
.090
.095
.100

.106
.112
.118
.124

MUSIC
WIRE
SPRING
WIRE

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

SQUARE STEEL TUBING
WELDED

HOT ROLLED BRIGHT FINISH

LOW CARBON

Random Lengths—3 to 24 Feet

Square Structural Pipe, See Page 108.

O.D.	Ga.	Wall Dec.	I.D.	Wt. per Ft. Lbs.	O.D.	Ga.	Wall Dec.	I.D.	Wt. per Ft. Lbs.
$\frac{3}{4} \times 11$		.120	.510	1.028	$2\frac{1}{2} \times 14$		.083	2.334	2.728
1 x 16		.065	.870	.826	12		.109	2.282	3.544
*15		.072	.856	.909	11 ($\frac{1}{8}$ ")		.120	2.260	3.884
14		.083	.834	1.035	7 ($\frac{3}{16}$ ")		.180	2.140	5.679
11 ($\frac{1}{8}$ ")		.120	.760	1.436	3×14		.083	2.834	3.292
$1\frac{1}{4} \times 16$		.065	1.120	1.048	12		.109	2.882	4.282
14		.083	1.084	1.317	11 ($\frac{1}{8}$ ")		.120	2.760	4.700
11 ($\frac{1}{8}$ ")		.120	1.010	1.844	7 ($\frac{3}{16}$ ")		.180	2.640	6.900
$1\frac{1}{2} \times 18$		.049	1.402	.967	$3\frac{1}{2} \times 5$		.220	3.060	9.819
16		.065	1.370	1.268	$4 \times 11 (\frac{1}{8})$		.120	3.760	6.332
14		.083	1.334	1.600	7 ($\frac{3}{16}$ ")		.180	3.640	9.351
11 ($\frac{1}{8}$ ")		.120	1.260	2.252	5		.220	4.560	14.307
$1\frac{3}{4} \times 11 (\frac{1}{8})$		.120	1.510	2.660					
2×18		.049	1.902	1.300					
16		.065	1.870	1.710					
14		.083	1.834	2.164					
13		.095	1.810	2.461					
11 ($\frac{1}{8}$ ")		.120	1.760	3.068					

WIRE
DRILL ROD

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

*This size is a structural and ornamental grade tube.

**STANDARD BLACK PIPE**

ROUND

WELDED—PLAIN ENDS

Specification ASTM-A-120-54 Schedule 40
Can be furnished threaded or threaded and coupled.

Nom. Size	Wt. Per Ft.	Wall Thickness	Size O.D.	Size I.D.	Length
1/8"	.24	.068	.405	.269	21 ft.
1/4"	.42	.088	.540	.364	21 ft.
3/8"	.57	.091	.675	.493	21 ft.
1/2"	.85	.109	.840	.622	21 ft.
5/8"	1.13	.113	1.050	.824	21 ft.
1"	1.68	.133	1.315	1.049	21 ft.
1 1/4"	2.27	.140	1.660	1.380	21 ft.
1 1/2"	2.72	.145	1.900	1.610	21 ft.
2"	3.65	.154	2.375	2.067	21 ft.
2 1/2"	5.79	.203	2.875	2.469	21 ft.
3"	7.58	.216	3.500	3.068	21 ft.
3 1/2"	9.11	.226	4.000	3.548	21 ft.
4"	10.79	.237	4.500	4.026	21 ft.
*5"	14.62	.258	5.563	5.047	21 ft.
*6"	18.97	.280	6.625	6.065	21 ft.
*8"	28.55	.322	8.625	7.981	21 ft.
*10"	40.48	.365	10.750	10.020	21 ft.
*12"	49.56	.375	12.750	12.000	21 ft.

Also available Galvanized.

*Seamless. A.S.T.M. A-53 Gr. B.

**EXTRA STRONG BLACK PIPE**

ROUND

WELDED—PLAIN ENDS

Specification ASTM-A-120-54 Schedule 80

Can be furnished threaded or threaded and coupled.

Nom. Size	Wt. Per Ft.	Wall Thickness	Size O.D.	Size I.D.	Length
3/8"	.74	.126	.675	.423	21 ft.
1/2"	1.09	.147	.840	.546	21 ft.
5/8"	1.47	.154	1.050	.742	21 ft.
1"	2.17	.179	1.315	.957	21 ft.
1 1/4"	3.00	.191	1.660	1.278	21 ft.
1 1/2"	3.63	.200	1.900	1.500	21 ft.
2"	5.02	.218	2.375	1.939	21 ft.
2 1/2"	7.66	.276	2.875	2.323	21 ft.
3"	10.25	.300	3.500	2.900	21 ft.
3 1/2"	12.51	.318	4.000	3.364	21 ft.
4"	14.98	.337	4.500	3.826	21 ft.
*5"	20.78	.375	5.563	4.813	21 ft.
*6"	28.57	.432	6.625	5.761	21 ft.

Also available Galvanized.

*Seamless.

**SQUARE STRUCTURAL PIPE**

HOT ROLLED—BUTT WELDED

Square Hot Rolled Tube. See Page 107.

Size	Nom. Wall Thickness	Wt. Per Ft.	Length
1 1/4"	.135	2.20	19-22 ft.
	.188	2.75	19-22 ft.
1 1/2"	.140	2.70	19-22 ft.
	.188	3.05	19-22 ft.
2"	.145	3.70	19-22 ft.
	.188	4.40	19-22 ft.
2 1/2"	.188	5.60	19-22 ft.

STANDARD TOLERANCES

ROUND SEAMLESS
COLD DRAWN MECHANICAL TUBE

Warehouse Tolerance Variations Limited to O.D. and Wall

SIZE, OD INCHES	UNANNEALED OR FINISH ANNEALED				Wall Thickness Per Cent Over or Under	
	OD in.		ID in.			
	Over	Under	Over	Under		
3/16 to 1/2 excl. (b)(c)	0.004	0	...	...	15
1/2 to 1 1/2 excl. (a)(b)(c)(d)	0.005	0	0	0.005	10	
1 1/2 to 3 1/2 excl. (a)(b)(c)(d)	0.010	0	0	0.010	10	
3 1/2 to 5 1/2 excl. (a) (d)	0.015	0	0.005	0.015	10	
5 1/2 to 8 excl. (d) when wall is less than 5% of OD	0.030	0.030	0.035	0.035	10	
5 1/2 to 8 excl. when wall is from 5% to 7.5% of OD	0.020	0.020	0.025	0.025	10	
5 1/2 to 8 excl. (a) when wall is over 7.5% of OD	0.030	0	0.015	0.030	10	
8 to 9 1/4 incl. (d) when wall is less than 5% of OD	0.045	0.045	0.050	0.050	10	
8 to 9 1/4 incl. when wall is from 5% to 7.5% of OD	0.035	0.035	0.040	0.040	10	
8 to 9 1/4 incl. (a) when wall is over 7.5% of OD	0.045	0	0.015	0.040	10	

Note (a). Many tubes with inside diameter less than 50 per cent of outside diameter or with wall thickness more than 25 per cent of outside diameter, or with wall thickness over 1 1/4 in., or weighing more than 90 lb per ft, are difficult to draw over a mandrel. Unless otherwise agreed upon by the purchaser and producer, the inside diameter may vary over or under by an amount equal to 10 per cent of the wall thickness and the wall thickness may vary 12 1/2 per cent over and under that specified. See also Note (b).

Note (b). For those tubes with inside diameter less than 1/2 in. (or less than 5/8 in. when the wall thickness is more than 20 per cent of the outside diameter) which are not commonly drawn over a mandrel, Note (a) is not applicable. Unless otherwise agreed upon by the purchaser and producer the wall thickness may vary 15 per cent over and under that specified and the inside diameter is governed by the outside diameter and wall thickness tolerances shown in the above table.

Note (c). For tubes with inside diameter less than 1/2 in. (or less than 5/8 in. when the wall thickness is more than 20 per cent of the outside diameter) which can be produced by the rod or bar mandrel process, the tolerances are as shown in the above table except that the wall thickness tolerances are 10 per cent over and under the specified wall thickness.

Note (d). Tubing having a wall thickness less than 3 per cent of the outside diameter cannot be straightened properly without a certain amount of distortion. Consequently such tubes, while having an average outside diameter and inside diameter within the tolerances shown in the above table, require an ovality tolerance of 1/2 per cent over and under nominal outside diameter, this being in addition to the tolerances indicated in the above table.

EXPLANATORY NOTES

Tolerances are applicable to two dimensions only (length excepted). Thus, if outside diameter and wall thickness are specified, the theoretical inside diameter may not conform to published tolerances. If outside diameter and inside diameter are specified, the wall thickness may not conform to published tolerances, except that the mean or average wall thickness (taking into account permissible outside diameter and inside diameter tolerances) will not vary more than indicated under Permissible Variations in Wall Thicknesses.

The inside diameter tolerances have been established by use of a tapered plug gage. There are numerous methods and devices for measuring inside diameter; the results obtained are frequently at variance. Where this is a critical dimension, the manufacturer should be consulted on the method of measuring and the actual dimension of the gages to be used.

Finish-annealed and unannealed tubing constitute the bulk of cold-finished mechanical tubing. Finish annealing is done at temperatures below the lower critical point and reduces cold working stresses without appreciably affecting the hardness. Tubes which have been given a softer anneal are apt to possess more or less ovality or out-of-roundness, due to warpage in annealing or to the subsequent straightening operations. The higher temperatures used in making the softer anneals, with the attendant increase in scale, also affect the accuracy of diameter. The temperatures used in the quenched and tempered tubing have similar effects on dimensional tolerances and permissible variations are even wider than those for the soft annealed or normalized tubing.

WIRE DRILL ROD	.085
STAINLESS STEELS	.090
LUMINUM	.095
BRASS COPPER	.100
WEIGHTS DATA	.106
	.112
	.118
	.124
MUSIC WIRE SPRINGS	.130
	.136
	.142
	.148
	.154
	.160
	.166
	.172
	.178
	.184
	.190
	.196
	.202
	.208
	.214
	.220
	.226
	.232
	.238
	.244
	.250
	.256
	.262
	.268
	.274
	.280
	.286
	.292
	.298
	.304
	.310
	.316
	.322
	.328
	.334
	.340
	.346
	.352
	.358
	.364
	.370
	.376
	.382
	.388
	.394
	.400
	.406
	.412
	.418
	.424
	.430
	.436
	.442
	.448
	.454
	.460
	.466
	.472
	.478
	.484
	.490
	.496
	.502
	.508
	.514
	.520
	.526
	.532
	.538
	.544
	.550
	.556
	.562
	.568
	.574
	.580
	.586
	.592
	.598
	.604
	.610
	.616
	.622
	.628
	.634
	.640
	.646
	.652
	.658
	.664
	.670
	.676
	.682
	.688
	.694
	.700
	.706
	.712
	.718
	.724
	.730
	.736
	.742
	.748
	.754
	.760
	.766
	.772
	.778
	.784
	.790
	.796
	.802
	.808
	.814
	.820
	.826
	.832
	.838
	.844
	.850
	.856
	.862
	.868
	.874
	.880
	.886
	.892
	.898
	.904
	.910
	.916
	.922
	.928
	.934
	.940
	.946
	.952
	.958
	.964
	.970
	.976
	.982
	.988
	.994
	.998
	.999
	.999



MUSIC SPRING WIRE



BRIGHT and TRUCOAT FINISH

DRAWN TO MUSIC WIRE GAUGE

Bright Automatic & Straightened in Coil

1/4, 1/2, 1, 2, 5 lb. and Catchweight Coils

Can Be Furnished Re-coiled or Spooled to Order.

Sizes .035 and Heavier Can Be Furnished Straightened and Cut to Length.

Music Wire Gage	Decimal Equivalent	Feet per Pound	Stock Carried	Music Wire Gage	Decimal Equivalent	Feet per Pound	Stock Carried
#6/0	.004	23,433	Spools	#23	.051	145.1	Coils
#5/0	.005	14,997	Spools		.052	139.6	Coils
#4/0	.006	10,415	Spools		.053	134.1	Coils
	.007	7,652	Coils		.054	128.6	Coils
#2/0	.008	5,858	Coils	#24	.055	124.1	Coils
#1/0	.009	4,629	Coils		.057	115.5	Coils
# 1	.010	3,749	Coils		.058	111.5	Coils
# 2	.011	3,050	Coils	#25	.059	107.4	Coils
# 3	.012	2,604	Coils		.060	104.2	Coils
# 4	.013	2,218	Coils		.061	100.7	Coils
	.0135	2,050	Coils		.062	96.2	Coils
# 5	.014	1,913	Coils	#26	.063	93.5	Coils
	.015	1,666	Coils		.064	91.5	Coils
# 6	.016	1,465	Coils		.065	88.7	Coils
	.017	1,347	Coils		.066	86.1	Coils
# 7	.018	1,157	Coils	#27	.067	83.9	Coils
	.019	1,041	Coils		.069	80.4	Coils
# 8	.020	937.3	Coils		.070	79.2	Coils
	.021	852.0	Coils	#28	.071	74.8	Coils
# 9	.022	774.6	Coils		.072	72.3	Coils
	.023	708.7	Coils		.074	68.5	Coils
#10	.024	650.9	Coils	#29	.075	65.6	Coils
	.025	600.0	Coils		.076	64.8	Coils
#11	.026	565.0	Coils		.077	62.1	Coils
	.027	521.0	Coils		.078	61.2	Coils
	.028	478.2	Coils	#30	.080	58.6	Coils
#12	.029	450.0	Coils		.081	57.1	Coils
	.030	420.0	Coils		.082	55.8	Coils
#13	.031	376.0	Coils		.083	54.4	Coils
	.032	366.1	Coils		.084	53.1	Coils
#14	.033	349.0	Coils	#31	.085	52.0	Coils
	.034	310.0	Coils		.086	50.8	Coils
#15	.035	306.1	Coils		.087	49.6	Coils
	.036	289.3	Coils	#32	.090	46.0	Coils
#16	.037	265.6	Coils		.091	45.2	Coils
	.038	261.9	Coils		.092	44.3	Coils
#17	.039	248.1	Coils		.093	43.0	Coils
	.040	234.3	Coils		.094	42.1	Coils
#18	.041	223.0	Coils	#33	.095	41.5	Coils
	.042	212.5	Coils		.097	39.9	Coils
#19	.043	204.2	Coils		.098	39.0	Coils
	.044	195.8	Coils		.099	38.2	Coils
#20	.045	186.6	Coils	#34	.100	37.2	Coils
	.046	178.3	Coils		.101	36.3	Coils
#21	.047	171.0	Coils		.102	35.9	Coils
	.048	162.7	Coils		.103	35.0	Coils
#22	.049	156.2	Coils		.105	33.2	Coils
	.050	150.4	Coils	#35	.106	32.8	Coils

(Continued on following page)

15/32

TROIT 12,
Twinbrook
ail Box 148 H
13400 Mt. El



MUSIC SPRING WIRE

BRIGHT and TRUCOAT FINISH
DRAWN TO MUSIC WIRE GAUGE

Bright Automatic & Straightened in Coil

1/4, 1/2, 1, 2, 5 lb. and Catchweight Coils

Can Be Furnished Re-coiled or Spooled to Order.
Sizes .035 and Heavier Can Be Furnished Straightened and Cut to Length.

(Continued from preceding page)

Music Wire Gage	Decimal Equivalent	Feet per Pound	Stock Carried	Music Wire Gage	Decimal Equivalent	Feet per Pound	Stock Carried
#37	.109	31.5	Coils	#40	.135	20.8	Coils
	.110	30.5	Coils		.138	19.9	Coils
	.112	28.2	Coils		.140	19.1	Coils
	.114	27.9	Coils		.142	18.5	Coils
	.115	28.4	Coils		.146	17.6	Coils
	.118	26.9	Coils		.148	17.1	Coils
	.120	26.0	Coils		.152	16.2	Coils
	.121	25.6	Coils		.154	15.8	Coils
	.124	24.3	Coils		.156	15.4	Coils
	.125	24.0	Coils		.162	14.3	Coils
#39	.128	22.9	Coils	3/16	.177	11.9	Coils
	.130	22.2	Coils		.1875	10.66	Coils



TINNED MUSIC SPRING WIRE



MICRO-TIN FINISH
DRAWN TO MUSIC WIRE GAUGE

Automatic & Straightened in Coil

1/4, 1, 5 lb. and Catchweight Coils

Can Be Furnished Re-coiled or Spooled to Order

Music Wire Gage	Decimal Equivalent	Feet per Pound	Music Wire Gage	Decimal Equivalent	Feet per Pound
#000	.007	7,652		.036	289
#00	.008	5,858	#16	.037	265
# 0	.009	4,629		.038	262
# 1	.010	3,749	#17	.039	248
# 2	.011	3,214		.040	234
# 3	.012	2,604	#18	.041	223
# 4	.013	2,218		.042	212
# 5	.014	1,913	#19	.043	204
	.015	1,666		.044	195
# 6	.016	1,465	#20	.045	186
# 7	.018	1,157	#21	.047	172
	.019	1,041		.049	156
# 8	.020	937	#23	.051	145
	.021	852	#24	.055	124
# 9	.022	774		.058	111
#10	.024	650	#25	.059	107
	.025	600		.060	104
#11	.026	565	#26	.062	98
	.027	521		.063	93
	.028	478		.065	88
#12	.029	450	#27	.067	83
	.030	420		.071	74
#13	.031	376	#29	.072	72
	.032	366		.075	65
#14	.033	349		.076	64
	.034	310	#30	.080	58
#15	.035	306			

WIRE
DRILL ROD

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA



ROUND
BRIGHT BASIC STEEL WIRE



SIZES $\frac{1}{2}$ " TO $\frac{3}{32}$ "—HARD DRAWN

SIZES No. 13 GAUGE AND LIGHTER—SOFT TEMPER

Standard Coils—14" to 24" I.D.

Can Be Furnished in Straightened and Cut Lengths

Size Steel Wire Gage	Pounds per 100 Feet	Stock Carried	Size Steel Wire Gage	Pounds per 100 Feet	Stock Carried
$\frac{1}{2}$ "	66.88	Coils	$\frac{5}{32}$ "	6.52	Coils
$\frac{7}{16}$ "	51.05	Coils	# 9	5.87	Coils
$\frac{3}{8}$ "	37.51	Coils	#10	4.86	Coils
$\frac{5}{16}$ "	26.05	Coils	$\frac{1}{8}$ "	4.17	Coils
# 1	21.36	Coils	#11	3.87	Coils
$\frac{1}{4}$ "	16.67	Coils	#12	2.97	Coils
# 3	15.84	Coils	#13	2.23	Coils
# 4	13.54	Coils	#14	1.71	Coils
$\frac{7}{32}$ "	12.76	Coils	#15	1.38	Coils
# 5	11.43	Coils	#16	1.04	Coils
# 6	9.83	Coils	#17	.78	Coils
$\frac{3}{16}$ "	9.38	Coils	#18	.60	Coils
# 7	8.36	Coils	#20	.32	Coils
# 8	7.00	Coils			

COPPERED AND SOFT GALVANIZED



BASIC STEEL WIRE

Standard Coils—14" to 24" I.D.

Can Be Furnished in Straightened and Cut Lengths

Size Steel Wire Gage	Pounds per 100 Feet	Coppered	Soft Galvanized	Size Steel Wire Gage	Pounds per 100 Feet	Coppered	Soft Galvanized
$\frac{1}{2}$ "	66.68	Coils	....	$\frac{9}{64}$ "	5.28	Coils	....
$\frac{7}{16}$ "	51.05	Coils	....	#10	4.86	Coils	Coils
$\frac{3}{8}$ "	37.51	Coils	....	$\frac{1}{8}$ "	4.17	Coils	Coils
$\frac{5}{16}$ "	26.05	Coils	....	#11	3.87	Coils	Coils
$\frac{1}{4}$ "	16.67	Coils	....	#12	2.97	Coils	Coils
$\frac{7}{32}$ "	12.76	Coils	....	#13	2.23	Coils	Coils
# 5	11.43	....	Coils	#14	1.71	Coils	Coils
# 6	9.83	Coils	Coils	#15	1.38	Coils	....
$\frac{3}{16}$ "	9.38	Coils	Coils	#16	1.04	Coils	Coils
# 7	8.36	Coils	Coils	#17	.78	....	Coils
# 8	7.00	Coils	Coils	#18	.60	Coils	Coils
$\frac{5}{32}$ "	6.51	Coils	....	#19	.45	Coils	....
# 9	5.87	Coils	Coils				



ROUND

COPPERED BESSEMER STEEL ROD

4 and 12 Ft. Lengths—Burlapped

Size Steel Wire Gage	Pounds per 100 Feet	Lengths Feet	Size Steel Wire Gage	Pounds per 100 Feet	Lengths Feet
$\frac{1}{2}$ "	66.88	4-12	$\frac{9}{64}$ "	5.28	4-12
$\frac{7}{16}$ "	51.05	4-12	#10	4.86	4-12
$\frac{3}{8}$ "	37.51	4-12	$\frac{1}{8}$ "	4.17	4-12
$\frac{5}{16}$ "	26.05	4-12	#11	3.87	4-12
$\frac{1}{4}$ "	16.67	4-12	#12	2.97	4-12
$\frac{7}{32}$ "	12.76	4-12	#13	2.23	4-12
# 6	9.83	4-12	#14	1.71	4-12
$\frac{3}{16}$ "	9.38	4-12	#15	1.39	4-12
# 7	8.36	4-12	#16	1.04	4-12
# 8	7.00	4-12	#18	.60	4
$\frac{5}{32}$ "	6.52	4-12	#19	.45	4
# 9	5.87	4-12			

DETROIT 12
Twinbro

Mail Box 148
13400 Mt.

**SOFT ANNEALED STEEL WIRE**

Standard Coils—8" to 24" I.D.

Can Be Furnished in Straightened and Cut Lengths and 12 Lb. Stones

Size Steel Wire Gage	Pounds per 100 Feet	Stock Carried	Size Steel Wire Gage	Pounds per 100 Feet	Stock Carried
3/8"	37.51	Coils	#12	2.97	Coils
5/16"	26.05	Coils	#13	2.23	Coils
1/4"	16.67	Coils	#14	1.71	Coils
# 4	13.54	Coils	#15	1.38	Coils
# 6	9.83	Coils	#16	1.04	Coils
3/16"	9.38	Coils	#17	.78	Coils
# 7	8.36	Coils	#18	.60	Coils
# 8	7.00	Coils	#19	.45	Coils
# 9	5.87	Coils	#20	.32	Coils
#10	4.86	Coils	#22	.22	Coils
1/8"	4.17	Coils	#23	.178	Coils
#11	3.87	Coils	#24	.141	Coils
#11 1/2	3.43	Coils			

COMMON BRIGHT NAILS

Packed 50 lb. Cartons.

Size	Length in Inches	Steel Wire Gage
2d.	1	15
3d.	1 1/4	14
4d.	1 1/2	12 1/2
5d.	1 3/4	12 1/2
6d.	2	11 1/2
7d.	2 1/4	11 1/2
8d.	2 1/2	10 1/4
9d.	2 3/4	10 1/4
10d.	3	9
12d.	3 1/4	9
16d.	3 1/2	8
20d.	4	6
30d.	4 1/2	5
40d.	5	4
50d.	5 1/2	3
60d.	6	2

BOX NAILS—SMOOTH BRIGHT

Packed 50 lb. Cartons.

Size	Length in Inches	Steel Wire Gage
3d.	1 1/4	14 1/2
4d.	1 1/2	14
5d.	1 3/4	14
6d.	2	12 1/2
7d.	2 1/4	12 1/2
8d.	2 1/2	11 1/2
10d.	3	10 1/2
16d.	3 1/2	10
20d.	4	9

STAINLESS
STEELS

LUMINUM

BRASS
COPPERWEIGHTS
DATA

FINISHING NAILS—BRIGHT

Packed 50 lb. Cartons.

Size	Length in Inches	Steel Wire Gage	Size	Length in Inches	Steel Wire Gage
3d	1 1/4	15 1/2	8d	2 1/2	12 1/2
4d	1 1/2	15	10d	3	11 1/2
6d	2	13			

COOLERS CEMENT COATED

Packed 50 lb. Cartons.

Size	Length in Inches	Steel Wire Gage	Size	Length in Inches	Steel Wire Gage
3d	1 1/8	15 1/2	7d	2 1/8	12 1/2
4d	1 3/8	14	8d	2 3/8	11 1/2
5d	1 5/8	13 1/2	10d	2 7/8	11
6d	1 7/8	13			

SINKERS—CEMENT COATED

SLIGHTLY COUNTERSUNK HEAD



Packed 50 lb. Cartons.

Size	Length in Inches	Steel Wire Gage	Size	Length in Inches	Steel Wire Gage
3d	1 1/8	15 1/2	10d	2 7/8	11
4d	1 3/8	14	12d	3 1/8	10
5d	1 5/8	13 1/2	16d	3 1/4	9
6d	1 7/8	13	20d	3 3/4	7
7d	2 1/8	12 1/2	30d	4 1/4	6
8d	2 3/8	11 1/2	40d	4 3/4	5
			60d	5 3/4	3

BOX NAILS—CEMENT COATED

Packed 50 lb. Cartons.

Size	Length in Inches	Steel Wire Gage	Size	Length in Inches	Steel Wire Gage
3d	1 1/8	16	7d	2 1/8	13 1/2
4d	1 3/8	15 1/2	8d	2 3/8	12 1/2
5d	1 5/8	15	10d	2 7/8	11 1/2
6d	1 7/8	13 1/2			

LATH NAILS—STERILIZED—BLUED

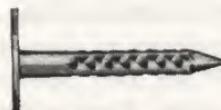
Packed 50 lb. Cartons.

Size	Length in Inches	Steel Wire Gage	Size	Length in Inches	Steel Wire Gage
2d	1	16½	3d Lt.	1½	16
3d	1½	15			

FOUNDRY NAILS—BRIGHT SMOOTH

Packed 50 lb. Cartons.

Lengths: ¾" to 6" Inclusive

Gauges: No. 9—½" Head
No. 10—½" Head**ROOFING NAILS**BRIGHT BARBED OR GALVANIZED
LARGE HEAD

Packed 50 lb. Cartons.

Approximate Number of Nails to the Pound

Length Inches	½" Head		¾" Head		⅝" Head
	10 Ga.	10 Ga.	10½ Ga.	11 Ga.	
⅜	215	225	264	280	396
1	190	210	228	255	361
1¼	170	170	198	210	286
1½	150	155	167	180	249
1¾	130	135	147	150	210
2	110	115	126	138	195

SHINGLE NAILS—BRIGHT

Packed 50 lb. Cartons.

Size	Length in Inches	Steel Wire Gage	Size	Length in Inches	Steel Wire Gage
3d	1¼	13	4d	1½	12
3½d	1¾	12½			

PLASTER BOARD NAILS—SPECIAL BLUED

Packed 50 lb. Cartons.

Length Inches	Steel Wire Gage	Length Inches	Steel Wire Gage
1½	13	1¾	13
1¾	13		

STAINLESS STEELS

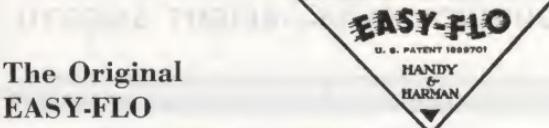
LUMINUM

BRASS COPPER

WEIGHTS DATA

HANDY & HARMAN
EASY-FLO BRAZING ALLOYS

**Low Temperature Silver Alloys which
 Produce High Strength Joints between
 Ferrous, Non-ferrous and Disimilar Metals**



**The Original
 EASY-FLO**

THE ORIGINAL EASY-FLO Silver Brazing Alloy—a low temperature narrow melting range composition containing a medium percentage of silver—50%. It starts to flow at 1160°F. and is exceptionally fluid at 1175°F. Makes strong, ductile, leak-tight joints.

EASY-FLO 45



EASY-FLO 45, also a narrow melting range alloy, contains a reduced percentage of silver—45% and has the lowest flow point of any alloy capable of making ductile, high strength joints. Starts to flow at 1125°F. and flows freely at 1145°F. Recommended as a general purpose Silver Brazing Alloy.

EASY-FLO 35



EASY-FLO 35—a low cost, wide melting range alloy containing a lower percentage of silver—35%. Starts to flow at 1125°F. and is free flowing at 1295°F. Has the lowest flow point of any silver brazing alloy of comparable silver content and properties. Particularly effective for torch brazing. Makes good fillets where they are required.

EASY-FLO 3



EASY-FLO 3—a wide range silver alloy containing a medium percentage of silver—50%. Starts to melt at 1195°F. and flows freely at 1270°F. Widely used for brazing cemented carbide tool tips and for fabricating large copper pipe. Makes good fillets and has increased corrosion resistance. Recommended for marine hardware, dairy equipment and poorly fitted assembly.

HANDY & HARMAN EASY-FLO BRAZING ALLOYS

Standard Sizes—(carried in stock)

Standard Sizes	Approx. Length Per Troy Oz.*	
	EF, EF45, EF3	EF-35
Round Wire (Coils)	inches	inches
1/8"	16	16
3/32"	29	30
1/16"	66	68
3/64"	116	120
1/32"	264	272
Sheet (Coils) 1/16" to 6" wide	sq. in.	sq. in.
.020"	10	10
.010"	20	21
.005"	40	41
.003"	67	69

*A troy ounce is about 10% heavier than an avoirdupois ounce—that is, one troy ounce equals 1.097 avoirdupois ounces. One avoirdupois pounds equals 14.583 troy ounces.

SIL-FOS BRAZING ALLOY

A Low Temperature Silver Brazing Alloy for Non-Ferrous Metals.

A low cost silver content alloy (15%) for brazing non-ferrous metals only. SIL-FOS starts to melt at 1185°F and is completely liquid and free flowing at 1300°F. Makes joints between copper, brass and bronze that are as strong or stronger than the metals joined. No flux required on copper to copper.

STANDARD SIZES

Standard Sizes	Approx. Length Per Pound	
	inches	sq. in.
1/8" sq. x 36"	210	132
.050" x 1/8" x 20"	524	328
.050" x 1/16" x 20"	1048	656
1/32" x 1/16" x 20"	1677	1093
1/32" x 1/32" x 20"	3354	
3/32" Wire (Coils)	475	
1/16" Wire (Coils)	1068	
3/64" Wire (Coils)	1900	
1/32" Wire (Coils)	4272	
Sheet (Coils) 1/16" to 6" wide		
.025"		
.010"		
.005"		
.003"		

Special Sizes

Standard sizes meet most requirements but any reasonable size wire or strip can be supplied. Intermediate sizes are available at the same price as the next smaller standard size. (Example: $\frac{5}{16}$ " dia. wire is priced same as $\frac{1}{8}$ " dia. wire.)

Also available in: Fine filings and powders from 20 to 200 mesh. Washers or rings to specification. Wire and strip in special cut lengths—prices upon application.

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA

HANDY & HARMAN**HANDY FLUX**

A low temperature flux for use with silver brazing alloys, which offers many important advantages.

**LOW MELTING TEMPERATURE**

Handy Flux is entirely fluid and active at 1100°F. It saves time and gas—permits taking full advantage of brazing alloys and silver solders with low flow points.

RAPID SOLVENT ACTION AND EASY CLEANING

Handy Flux dissolves practically all oxides rapidly and thoroughly including those of chromium. It begins to fuse at 800°F. and at 1100°F. this flux is a thin active fluid which insures thorough wetting of joint surfaces by brazing materials and strong, uniformly dependable joints.

Effective with alloys having flow points from 1100°F. to 1600°F. Can be thinned with water if desired and is easily removed with hot water.

OXY-ACETYLENE WELDING WIRE**COPPERED No. 6G
36" Lengths**

Extra low carbon (.06 Max.), high ductility wire designed for mild steel welds of maximum strain and shock resistance.

Sizes carried in stock:

1/16 in.	3/32 in.	1/8 in.	5/32 in.	3/16 in.	1/4 in.
----------	----------	---------	----------	----------	---------

**COPPERED No. 10G
36" Lengths**

Welding quality mild steel containing .10 Max. carbon and higher in tensile strength than Coppered 6G. Suitable for all around welding on mild and low alloy steel and for many years considered the standard wire for regular shop repair works.

Sizes carried in stock:

1/16 in.	3/32 in.	1/8 in.	3/16 in.	1/4 in.
----------	----------	---------	----------	---------

**TENSOX
36" Lengths**

.15 to .20 carbon, .90 to 1.20 Manganese for welds requiring extra high strength. Recommended for pipe lines and machine frames and also has been found to produce better welds on high sulphur free machining steels than regular mild steel welding rod.

Sizes carried in stock:

1/16 in.	3/32 in.	1/8 in.	5/32 in.	3/16 in.	1/4 in.
----------	----------	---------	----------	----------	---------

**CASTOX
24" Lengths**

Pure, welding quality, square cast iron rods produced especially for the gas welding of cast iron. For best results use with Castox Flux.

Sizes carried in stock:

1/8 in.	3/16 in.	1/4 in.	5/16 in.	3/8 in.	1/2 in.
---------	----------	---------	----------	---------	---------

**STAINOX TYPE 347
36" Lengths**

8% Nickel, 18% chrome analysis with columbium content to increase resistance to corrosion. Particularly recommended for welding type 302 and 304 Stainless Steel but also suitable for many other grades of chrome-nickel and straight chrome Stainless Steels.

Sizes carried in stock:

1/16 in.	3/32 in.	1/8 in.
----------	----------	---------

DETROIT 1

Twins

Mail Box 14

13400 Mt

BRONZE GAS WELDING AND BRAZING WIRE

BRONZOX

36" Lengths

A low fuming bronze gas welding rod for strong, tough welds on steel, cast iron, bronze or brass. Fumes less than regular bronze making it more desirable for inside work. For best results use with Bronzox Flux.

Sizes carried in stock:

1/16 in.	3/32 in.	1/8 in.	3/16 in.	1/4 in.
----------	----------	---------	----------	---------

SWEDOX "T" BRONZE

36" Lengths

Welding quality bronze welding rod for all around repair work on iron, steel, brass and bronze. Particularly suitable for welding cast and malleable iron.

Sizes carried in stock:

1/16 in.	3/32 in.	1/8 in.	5/32 in.	3/16 in.	1/4 in.
----------	----------	---------	----------	----------	---------

SWEDOX MANGANESE BRONZE

36" Lengths

Regular bronze welding rod with manganese content for producing extra high strength welds having exceptional resistance to wear and abrasion.

Sizes carried in stock:

1/8 in.	3/16 in.	1/4 in.
---------	----------	---------

EVERDUR

36" Lengths

A silicon copper alloy designed for oxy-acetylene or carbon arc welding. Alloys readily with steel, brass, bronze and copper nickel alloys. Suitable for welding both light and heavy gauge sheets, plates, and bars, producing welds of high resistance to corrosion and abrasion.

Sizes carried in stock:

1/16 in.	3/32 in.	1/8 in.	3/16 in.
----------	----------	---------	----------

PHOSCO

36" Lengths

A low temperature phosphorus copper brazing alloy suitable for close tolerance joints (.005" or less) on brass, bronze and copper. Produces strong, corrosion resistant joints. Melts at 1300° Fahrenheit.

Sizes carried in stock:

1/16 in.	3/32 in.	1/8 in.	3/16 in.
----------	----------	---------	----------

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA

ALCOA ALUMINUM GAS WELDING AND BRAZING WIRE

**1100-O Formerly 2S-O
36" Lengths and Coil**

Pure aluminum for gas or tungsten-arc welding of all 1100 and 3003 sheets and bars.

Sizes carried in stock:
1/16 in. 3/32 in. 1/8 in. 5/32 in. 3/16 in. 1/4 in.

**4043-H19 Formerly 43S-H19 (5% Silicon)
36" Lengths and Coil**

A 5% Silicon Aluminum alloy for gas or tungsten-arc welding of weldable aluminum alloys including 5052, 6053 and 6061.

Sizes carried in stock:
1/16 in. 3/32 in. 1/8 in. 3/16 in. 1/4 in.

No. 718-O ALUMINUM BRAZING WIRE IN COIL

For torch brazing of 1100, 3003, 6053 and 6061 alloys.
Use #33 aluminum brazing Flux.

Sizes carried in stock:
1/16 in. 3/32 in. 1/8 in. 5/32 in. 3/15 in. 1/4 in.

FLUXES

CASTOX FLUX—For use with Castox in Welding Cast Iron.
1# cans.

BRONZOX FLUX—For welding and brazing with bronze gas welding wire.
1# cans.

#22 ALCOA ALUMINUM FLUX—For gas welding aluminum.
½#, 1# and 5# containers.

#33 ALCOA ALUMINUM FLUX—For furnace and torch brazing aluminum.
½#, 1# and 5# containers.

HANDY FLUX—A low temperature flux for use with silver brazing alloys. See page 118.

FLUX COATED MILD STEEL ELECTRODES

**AWS CLASSIFICATION E-4520
SPEEDOX D .08**

A low carbon wire having a thin drawn coating, especially designed for high speed work. Ideal for automatic machines and work to be galvanized after welding. Straight polarity carried in 14" lengths and coils.

Sizes carried in stock:
3/32 in. 1/8 in. 5/32 in. 3/16 in. 1/4 in.

WELDING CARBON ELECTRODES

This electrode is particularly adapted for use at high current densities where high penetration, maximum heat at the weld, and steadiness of the arc are required. Also unexcelled in speed, uniformity, and long life when used in arc torch for metal removal. It is recommended wherever welding carbons are used. Sizes $\frac{1}{8}$ " to 1" rod. Available plain or copper coated.

TOOL STEEL

Water Hardening Carbon Tool Steel

Ground & Polished Drill Rod Lime Drawn Flats and Squares

S.A.E. W1 1.00 Carbon
Sizes under 1/16" Rd. S.A.E. W1 1.20 Carbon

Carbon drill rod, shown on the following pages is carried in a wide range of sizes. All sizes $\frac{1}{16}$ inch and larger are manufactured from a 1% straight carbon tool steel that has been drawn and ground to an extremely smooth surface, free of decarburization, with a high degree of uniformity to size and a minimum of eccentricity. This material is annealed to assure uniform machinability and optimum response to heat treatment. Carbon drill rod is water quenching excepting sizes under $\frac{1}{16}$ inch which contain 1.25% carbon and may be water or oil quenched depending upon desired properties.

Lime drawn flats and squares in the water hardening tool steel grade are annealed for proper machinability, but small surface inequalities and light decarburization may be expected. Quench from 1400 to 1440° F. in water. Temper to desired hardness.

OIL HARDENING TOOL STEEL

Drill Rod—Ground & Polished Ground & Polished Flats & Squares S.A.E. O1

This is a fine grade of oil hardening non-deforming tool steel manufactured in the electric furnace with the general analysis as follows:

Carbon .90%	Tungsten .50%
Manganese 1.10%	Vanadium .10%
Chromium .50%	Silicon .35%

This material is carried in rounds, flats and squares all of which have been ground to an extremely accurate uniform surface after a uniform spheroidal anneal and are free of decarburization. This tool steel both in the drill rod sizes and in the flats and squares is recommended for tools and parts demanding shock and wear resistance and a keen durable cutting edge. Under good heating practices excellent hardness and toughness is achieved without warpage or dimensional change.

Hardening: It is recommended that the steel be heated slowly and uniformly in a suitable medium to a dark red or approximately 1200° F. Temperature may then be increased more rapidly, but still uniformly to the quenching temperature range 1420°–1490°F. (Small sections should be quenched from the low side of this range). Hold at quenching temperature long enough to assure uniform heating throughout the work. Quench in light oil maintained at a temperature of 100°–125° F. Remove the work from the oil while it is still warm (125°–150° F.) and temper to desired hardness.

Tempering: Reheat the work immediately in oil or other suitable medium. Hold the work at the desired temperature from one to two hours. Cool in still air or oil. Small cutting tools, viz: thread

(Continued on following page)

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA

OIL HARDENING TOOL STEEL

(Continued from preceding page)

cutting tabs, etc., are normally drawn at 320°-390° F.; broaches, reamers, etc., at 390°-465° F.; coining and jeweler's dies at 465°-500° F. The as-quenched hardness of this material, properly treated, is approximately 65 Rc. A 300° temper should reduce hardness to 62-63 Rc; a 400° temper, 60 Rc and a 500° F. temper to 57-58 Rc.

HIGH SPEED DRILL ROD

S.A.E. T1

Our high speed drill rods are 18% Tungsten (18-4-1) high speed tool steel—for tools demanding the ultimate in superior performance. The approximate composition is:

Carbon .70%
Tungsten 18.00%

Chromium 4.00%
Vanadium 1.00%

All high speed steel should be annealed after forging and before hardening or when re-hardening is required. Box annealing is always preferable. When annealing partially finished tools and generally when surface protection is of a prime importance, it is recommended that cast iron chips should be used for packing material. For proper annealing, heat slowly and uniformly to 1600-1650° F. and hold for complete adjustment and uniformity of grain. Cool in furnace at a maximum rate of 50 degrees F per hour until the steel is below 1000° F. After machining and before hardening, it may be necessary to relieve harmful machining strains by annealing at 1000-1200° F.

Hardening—Preheating—preheat slowly and uniformly to 1450-1600 degrees F. When hardening large tools or when distortion must be held to a minimum, it is essential to preheat very slowly and uniformly. Use two preheating furnaces, one held at 1100-1200° F. and the other at 1450-1600° F. In heating for quenching, transfer the preheated tool quickly to a high heat furnace that is maintained at a temperature of 2250-2350° F. The tool should be brought rapidly to heat in the high temperature furnace, and held at high heat a sufficient time for proper solution of the carbides without excessive grain growth or damage to surface. This should be measured in minutes and seconds. In quenching the common method is to quench in oil. Quenching in a dry air blast is also practiced but more frequently and particularly for greater safety from cracking or distortion, in still air. Perhaps the safest way to quench intricate tools to prevent cracking and minimize distortion is to immerse in a molten bath held at about 1100° F followed by still air cooling. All high speed steel should be tempered as soon as it is cool to 200-300° F. For tempering—reheat slowly and uniformly to 1025-1150 degrees F. Hold at temperature from 1 hour to 4 hours; the time and temperature depending upon the hardness and toughness required.



ROUNDS

POLISHED DRILL ROD



DIAMOND BRAND

Water Hardening* See page 121.

A high carbon tool steel quality drill rod, highly polished and accurate to gauge. Used for drills, punches and applications where accuracy, strength and smooth finish are desired.

Size	Decimal Equivalent	Weight per Foot Lbs.	Est. Wt. 3' Bar	Lengths in Feet
2	2.000	10.68	32.04	3
1 3/4	1.750	8.17	24.51	3
1 5/8	1.625	7.05	21.15	3, 12
1 33/64	1.5156	6.134	18.402	3, 12
1 1/2	1.500	6.004	18.000	3, 12
1 7/16	1.4375	5.514	16.536	3, 12
1 25/64	1.3906	5.184	15.552	3, 12
1 3/8	1.375	5.045	15.147	3, 12
1 5/16	1.3125	4.597	13.800	3, 12
1 17/64	1.2656	4.277	12.831	3, 12
1 1/4	1.250	4.120	12.501	3, 12
1 3/16	1.1875	3.763	11.313	3, 12
1 9/64	1.1406	3.484	10.452	3, 12
1 1/8	1.125	3.377	10.125	3, 12
1 1/16	1.0625	3.012	9.030	3, 12
1 1/64	1.0156	2.749	8.247	3, 12
1	1.000	2.668	7.998	3, 12
63/64	.9844	2.584	7.749	3, 12
31/32	.9688	2.504	7.593	3, 12
61/64	.9531	2.424	7.248	3, 12
15/16	.9375	2.345	6.999	3, 12
59/64	.9219	2.264	6.786	3, 12
29/32	.9062	2.192	6.564	3, 12
57/64	.8906	2.114	6.354	3, 12
7/8	.875	2.043	6.126	3, 12
55/64	.8594	1.969	5.907	3, 12
27/32	.9438	1.900	5.688	3, 12
53/64	.8281	1.830	5.484	3, 12
13/16	.8125	1.762	5.250	3, 12
51/64	.7969	1.691	5.073	3, 12
25/32	.7813	1.629	4.875	3, 12
49/64	.7656	1.562	4.686	3, 12
3/4	.750	1.501	4.500	3, 12
47/64	.7344	1.438	4.314	3, 12
23/32	.7188	1.379	4.125	3, 12
45/64	.7031	1.319	3.936	3, 12
11/16	.6875	1.261	3.750	3, 12
43/64	.6719	1.201	3.603	3, 12
21/32	.6563	1.149	3.435	3, 12
41/64	.6406	1.093	3.312	3, 12
5/8	.625	1.042	3.126	3, 12
39/64	.6094	.990	3.000	3, 12
19/32	.5938	.941	2.811	3, 12
37/64	.5781	.892	2.676	3, 12
	.572	.870	2.610	3
9/16	.5625	.844	2.532	3, 12
35/64	.5469	.793	2.391	3, 12
17/32	.5313	.753	2.250	3, 12
33/64	.5156	.708	2.127	3, 12
1/2	.500	.668	2.001	3, 12
31/64	.4844	.625	1.875	3, 12
15/32	.4688	.583	1.749	3, 12
29/64	.4531	.542	1.626	3, 12
7/16	.4375	.510	1.530	3, 12
27/64	.4219	.472	1.416	3, 12
Z	.413	.458	1.374	3
13/16	.4063	.440	1.320	3, 12

(Continued on following page)

TOLERANCES

.124 and Smaller. Plus or Minus .0003".

.125 to .499. Plus or Minus .0005".

.500 to 1.500. Plus or Minus .001".

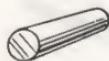
*Water Quench from 1425°F; Temper to desired Hardness.

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA



**ROUNDS
POLISHED DRILL ROD
DIAMOND BRAND**



Water Hardening* See page 121.
(Continued from preceding page)

Size	Decimal Equivalent	Weight per Foot Lbs.	Est. Wt. 3' Bar	Lengths in Feet
Y	.404	.437	1.311	3
X	.397	.421	1.263	3, 12
$\frac{25}{64}$	.3906	.408	1.221	3, 12
W	.386	.400	1.200	3
V	.377	.383	1.149	3
$\frac{3}{8}$	.375	.375	1.125	3, 12
U	.368	.362	1.086	3, 12
$\frac{23}{64}$	.359	.344	1.032	3
T	.358	.342	1.026	3
S	.348	.325	.975	3
$\frac{11}{32}$	.3438	.315	.939	3, 12
R	.339	.308	.924	3
Q	.332	.294	.882	3
$\frac{21}{64}$	.3281	.287	.861	3, 12
P	.323	.277	.831	3
O	.316	.266	.813	3, 12
$\frac{5}{16}$	.3125	.261	.780	3, 12
N	.302	.242	.726	3
$\frac{19}{64}$	.2969	.234	.702	3, 12
	.296	.2338	.701	3
M	.295	.233	.699	3
L	.290	.225	.675	3, 12
$\frac{9}{32}$	.2813	.212	.639	3, 12
K	.281	.212	.636	3
J	.277	.205	.615	3
	.275	.201	.603	3
I	.272	.198	.594	3
H	.266	.1884	.565	3
$\frac{17}{64}$	.2656	.188	.561	3, 12
G	.261	.181	.543	3, 12
F	.257	.174	.522	3, 12
E	.250	.167	.501	3
$\frac{1}{4}$	.250	.167	.501	3, 12
D	.246	.161	.483	3
C	.242	.154	.462	3
B	.238	.150	.450	3
$\frac{15}{64}$	.2344	.147	.441	3, 12
A	.234	.147	.441	3
1	.227	.138	.414	3
	.221	.131	.393	3
2	.219	.129	.387	3
$\frac{7}{32}$	.2188	.1278	.383	3, 12
3	.212	.121	.363	3
4	.207	.115	.345	3
5	.204	.109	.327	3
$\frac{13}{64}$	.2031	.109	.327	3, 12
6	.201	.107	.321	3, 12
7	.199	.106	.318	3
8	.197	.104	.312	3
9	.194	.099	.297	3, 12
	.1935	.098	.294	3
10	.191	.096	.288	3
11	.188	.094	.282	3
$\frac{3}{16}$	.1875	.0939	.282	3, 12
12	.185	.092	.276	3, 12
13	.182	.089	.267	3
14	.180	.087	.261	3

(Continued on following page)

TOLERANCES

.124 and Smaller. Plus or Minus .0003".

.125 to .499. Plus or Minus .0005".

.500 to 1.500. Plus or Minus .001".

*Water Quench from 1425°F; Temper to desired Hardness.



ROUNDS

POLISHED DRILL ROD

DIAMOND BRAND

Water Hardening* See page 121.

(Continued from preceding page)

Size	Decimal Equivalent	Weight per Foot Lbs.	Est. Wt. 3' Bar	Lengths in Feet
15	.178	.085	.255	3
16	.175	.082	.246	3
17	.172	.079	.237	3
$\frac{11}{64}$	.1719	.0789	.234	3, 12
18	.168	.076	.228	3
19	.164	.072	.216	3
20	.161	.069	.207	3
21	.157	.066	.198	3
$\frac{5}{32}$	.1563	.0652	.197	3, 12
22	.155	.065	.195	3
	.154	.064	.192	3
23	.153	.063	.189	3
24	.151	.061	.183	3
25	.148	.059	.177	3
26	.146	.057	.171	3
27	.143	.055	.165	3
$\frac{9}{64}$	.1406	.0528	.158	3, 12
28	.139	.052	.156	3
	.136	.0495	.149	3
29	.134	.048	.144	3, 12
30	.127	.043	.129	3, 12
$\frac{1}{8}$	.125	.042	.126	3, 12
31	.120	.039	.117	3, 12
32	.115	.036	.108	3, 12
33	.112	.034	.102	3, 12
34	.110	.032	.096	3, 12
$\frac{7}{64}$	.1094	.0315	.095	3, 12
35	.108	.031	.093	3, 12
36	.106	.030	.090	3, 12
37	.103	.029	.087	3
38	.101	.028	.084	3
39	.099	.026	.078	3
40	.097	.025	.075	3, 12
41	.095	.024	.072	3, 12
$\frac{3}{32}$	.0938	.023	.069	3, 12
42	.092	.023	.069	3, 12
43	.088	.021	.063	3, 12
44	.085	.019	.057	3
45	.081	.018	.054	3
46	.079	.017	.051	3
$\frac{5}{64}$	.0781	.0165	.050	3, 12
47	.077	.016	.048	3
48	.075	.015	.045	3
49	.072	.014	.042	3, 12
50	.069	.013	.039	3
51	.066	.012	.036	3
52	.063	.011	.033	3, 12
$\frac{1}{16}$	.0625	.010	.030	3, 12
53	.058	.009	.027	3, 12
54	.055	.008	.024	3, 12
55	.050	.007	.021	3, 12
$\frac{3}{64}$	.0469	.0065	.020	3, 12
56	.045	.006	.018	3, 12
57	.042	.005	.015	3
58	.041	.0045	.014	3

(Continued on following page)

TOLERANCES

.124 and Smaller. Plus or Minus .0003".

.125 to .499. Plus or Minus .0005".

.500 to 1.500. Plus or Minus .001".

*Water Quench from 1425°F; Temper to desired Hardness.

STAINLESS STEELS

LUMINUM

BRASS COPPER

WEIGHTS DATA



ROUNDS
POLISHED DRILL ROD



DIAMOND BRAND

Water Hardening* See page 121.
(Continued from preceding page)

Size	Decimal Equivalent	Weight per Foot Lbs.	Est. Wt. 3' Bar	Lengths in Feet
59	.040	.0043	.013	3
60	.039	.0040	.012	3
61	.038	.0038	.011	3
62	.037	.0037	.011	3
63	.036	.0035	.010	3
64	.035	.0033	.010	3
65	.033	.0029	.009	3
66	.032	.0027	.008	3
1/32	.0313	.0026	.008	3, 12
67	.031	.0025	.008	3
68	.030	.0024	.007	3
69	.029	.0023	.007	3
70	.027	.0020	.006	3
71	.026	.0018	.005	3
72	.024	.0015	.005	3
73	.023	.0014	.004	3
74	.022	.0013	.004	3
75	.020	.0011	.003	3
76	.018	.0009	.003	3
77	.016	.0007	.002	3
1/64	.0156	.0007	.002	3
78	.015	.0006	.002	3
79	.014	.0005	.002	3
80	.013	.0004	.001	3

TOLERANCES

.124 and Smaller. Plus or Minus .0003".

.125 to .499. Plus or Minus .0005".

.500 to 1.500. Plus or Minus .001".

*Water Quench from 1425°F; Temper to desired Hardness.

SQUARE DRILL ROD

DIAMOND BRAND

Water Hardening—Lime Drawn

Treatment: See page 121.

Size	Decimal Equivalent	Weight per Foot Lbs.	Est. Wt. 3' Bar	Lengths in Feet
1/16	.0625	.0133	.040	3
3/32	.0937	.029	.087	3
7/64	.1093	.039	.117	3
1/8	.125	.0531	.159	3, 12
5/32	.1562	.0830	.249	3
3/16	.1875	.1195	.360	3
7/32	.2187	.1627	.488	3
1/4	.250	.2125	.636	3, 12
9/32	.2812	.2689	.807	3, 12
5/16	.2125	.3320	.996	3, 12
11/32	.3437	.4018	1.205	3
3/8	.375	.4781	1.434	3, 12
13/32	.4062	.561	1.683	3
7/16	.4375	.6508	1.953	3
1/2	.500	.8500	2.550	3, 12
9/16	.5625	1.0758	3.227	3
5/8	.625	1.328	3.984	3
11/16	.6875	1.607	4.821	3
3/4	.750	1.913	5.739	3
13/16	.8125	2.245	6.735	3
7/8	.875	2.603	7.809	3
15/16	.9275	2.988	8.964	3
1	1.000	3.400	10.200	3

TOLERANCES

Smaller than 1/4" Plus or Minus .0005".

1/4" to 11/16" Incl. Plus or Minus .001".

3/4" to 1 1/2" Plus or Minus .0015".

DETROIT 12,
Twinbrook
Mail Box 148 E
13400 Mt. E

FLAT
CARBON STEEL DRILL ROD

DIAMOND BRAND

Lime Drawn Finish—Water Hardening

Treatment: See page 121.

Size In Inches	Weight per Foot Lbs.	Est. Wt. 3' Bar	Lengths in Feet
$\frac{1}{16} \times \frac{1}{8}$	.0266	.081	3
$\frac{3}{16}$	.0398	.119	3
$\frac{1}{4}$	.0531	.159	3
$\frac{5}{16}$	.0664	.199	3
$\frac{3}{8}$	.0797	.240	3
$\frac{7}{16}$	.0930	.279	3
$\frac{1}{2}$	.1063	.318	3
$\frac{5}{8}$	.1328	.398	3
$\frac{3}{32} \times \frac{1}{4}$	.0797	.240	3
$\frac{5}{16}$	.0996	.299	3
$\frac{3}{8}$	.1195	.359	3
$\frac{1}{2}$	.1594	.477	3
$\frac{1}{8} \times \frac{3}{16}$	.0797	.240	3
$\frac{1}{4}$	.1063	.318	3
$\frac{5}{16}$	.1328	.398	3
$\frac{3}{8}$	.1594	.477	3
$\frac{7}{16}$	.1859	.568	3
$\frac{1}{2}$	.2125	.639	3
$\frac{5}{8}$	.2656	.798	3
$\frac{3}{4}$	.3188	.956	3
$\frac{7}{8}$	.3719	1.116	3
1	.4250	1.275	3
$\frac{3}{16} \times \frac{1}{4}$	.1594	.477	3
$\frac{5}{16}$	.1992	.597	3
$\frac{3}{8}$	.2391	.717	3
$\frac{7}{16}$	.2789	.837	3
$\frac{1}{2}$	.3188	.957	3
$\frac{5}{8}$	.3984	1.194	3
$\frac{3}{4}$	.4781	1.434	3
$\frac{7}{8}$	.5578	1.673	3
1	.6375	1.914	3
$\frac{1}{4} \times \frac{5}{16}$	.2656	.798	3
$\frac{3}{8}$	.3188	.957	3
$\frac{1}{2}$	.4250	1.275	3
$\frac{5}{8}$	.5313	1.593	3
$\frac{3}{4}$	.6375	1.914	3
1	.8500	2.550	3
$\frac{5}{16} \times \frac{3}{8}$	.3984	1.194	3
$\frac{1}{2}$	.5323	1.593	3
1	1.063	3.180	3
$\frac{3}{8} \times \frac{7}{16}$	.5578	1.673	3
$\frac{1}{2}$	.6375	1.913	3
$\frac{3}{4}$	.9563	2.868	3
$\frac{7}{8}$	1.116	3.348	3
1	1.275	3.825	3
$\frac{1}{2} \times \frac{3}{4}$	1.275	3.825	3

STAINLESS
STEELS

ALUMINUM

BRASS
COPPER

WEIGHTS
DATA

**ROUND
OIL HARDENING DRILL ROD**

Non-Deforming Alloy Tool Steel

Treatment: Oil Quench from 1450-1475°F. See pages 121-122.

Tolerances: See Carbon Drill Rod

Size	Decimal Equivalent	Weight per Foot Lbs.	Est. Wt. 3' Bar	Lengths in Feet
1/16	.0625	.010	.030	3
3/32	.0938	.0225	.069	3
1/8	.125	.0417	.126	3
5/32	.1563	.0652	.197	3
3/16	.1875	.0939	.282	3
7/32	.2188	.1278	.383	3
1/4	.250	.167	.501	3
9/32	.2813	.212	.639	3
5/16	.3125	.261	.780	3
11/32	.3438	.315	.939	3
3/8	.375	.375	1.125	3
13/32	.4063	.440	1.320	3
7/16	.4375	.510	1.530	3
15/32	.4688	.583	1.749	3
1/2	.500	.668	2.001	3, 12
33/64	.5156	.708	2.127	3, 12
17/32	.5313	.753	2.250	3
9/16	.5625	.844	2.532	3
5/8	.625	1.042	3.126	3, 12
3/4	.750	1.501	4.500	3, 12
7/8	.875	2.043	6.126	3, 12
1	1.000	2.668	7.998	3, 12
1 1/8	1.125	3.377	10.125	3, 12
1 1/4	1.250	4.120	12.501	3, 12
1 3/8	1.375	5.045	15.147	3, 12
1 1/2	1.500	6.004	18.000	3, 12
1 5/8	1.625	7.051	21.15	3, 12
1 3/4	1.750	8.178	24.51	3, 12
1 7/8	1.875	9.388	28.16	3, 12
2	2.000	10.68	32.04	3, 12

**ROUND
HIGH SPEED
POLISHED DRILL ROD**

18% Tungsten, 4% Chromium, 1% Vanadium

Treatment—See page 122.

Size	Decimal Equivalent	Weight per Feet Lbs.	Est. Wt. 3' Bar	Lengths in Feet
3/32	.0938	.023	.069	3
1/8	.125	.042	.126	3
5/32	.1563	.0652	.197	3
3/16	.1875	.0939	.282	3
7/32	.2188	.1278	.383	3
1/4	.250	.167	.501	3
9/32	.2813	.212	.639	3
5/16	.3125	.261	.780	3
3/8	.375	.375	1.125	3
27/64	.4219	.472	1.416	3
7/16	.4375	.510	1.530	3
1/2	.500	.668	2.001	3
5/8	.625	1.042	3.126	3
3/4	.750	1.501	4.500	3
7/8	.875	2.043	6.126	3
1	1.000	2.668	7.998	3

TOLERANCES: .124 and Smaller Plus or Minus .0003".

.125 to .499 Plus or Minus .0005".

.500 to 1.500 Plus or Minus .001".

DETROIT 12
Twinbroc
Mail Box 148
13400 Mt. E

**PRECISION GROUND
FLAT TOOL STEEL
WARPLIS BRAND**

Individually Paper Wrapped
Oil Hardening—Non-Deforming
Standard Sizes—18-inch Lengths

Tolerances & Heat Treatment pages 121, 132.

Thickness	Width (Inch)	Weight per Piece	Thickness	Width (Inch)	Weight per Piece	Thickness	Width (Inch)	Weight per Piece
$\frac{1}{64}$	$\frac{1}{2}$	.04	$\frac{5}{64}$	$\frac{1}{2}$	.20	$\frac{1}{8}$	2	1.27
	$\frac{3}{4}$	.06		$\frac{3}{4}$	.30		$2\frac{1}{2}$	1.59
1		.08		1	.40		3	1.91
$1\frac{1}{4}$		.10		$1\frac{1}{4}$	.50		$3\frac{1}{2}$	2.23
$1\frac{1}{2}$		.12		$1\frac{1}{2}$	.60		4	2.55
2		.16		2	.80		$4\frac{1}{2}$	2.87
$2\frac{1}{2}$		.20		$2\frac{1}{2}$	1.00		5	3.19
3		.24		3	1.20		$5\frac{1}{2}$	3.51
$3\frac{1}{2}$		.28		$3\frac{1}{2}$	1.40		6	3.82
4		.32		4	1.60		7	4.46
$\frac{1}{32}$	$\frac{1}{2}$	.08		$4\frac{1}{2}$	1.80		8	5.10
	$\frac{3}{4}$	.12		5	2.00		10	6.38
1		.16		$5\frac{1}{2}$	2.20		12	7.65
$1\frac{1}{4}$		.20		6	2.40		14	8.93
$1\frac{1}{2}$		.24		8	3.20		$\frac{1}{8}$	.36
2		.32		10	4.00		$\frac{3}{4}$	.54
$2\frac{1}{2}$		.40		$\frac{1}{2}$	.24		1	.72
3		.48		$\frac{3}{4}$	.36		$1\frac{1}{4}$	.90
$3\frac{1}{2}$		.56		1	.48		$1\frac{1}{2}$	1.08
4		.64		$1\frac{1}{4}$	.60		2	1.44
$4\frac{1}{2}$		.72		$1\frac{1}{2}$	.72		$2\frac{1}{2}$	1.79
5		.80		2	.96		3	2.16
$5\frac{1}{2}$		.87		$2\frac{1}{2}$	1.19		$3\frac{1}{2}$	2.51
6		.95		3	1.43		4	2.87
8		1.27		$3\frac{1}{2}$	1.67		$4\frac{1}{2}$	3.23
10		1.59		4	1.91		5	3.59
$\frac{3}{64}$	$\frac{1}{2}$	.12		$4\frac{1}{2}$	2.15		$5\frac{1}{2}$	3.94
	$\frac{3}{4}$	.18		5	2.39		6	4.30
1		.24		$5\frac{1}{2}$	2.63		7	5.02
$1\frac{1}{4}$		.30		6	2.87		8	5.74
$1\frac{1}{2}$		.36		8	3.82		10	7.17
2		.48		10	4.78		12	8.60
$2\frac{1}{2}$		.60		$\frac{1}{2}$	.28		14	10.04
3		.72		$\frac{5}{8}$	.35		$\frac{1}{8}$	.40
$3\frac{1}{2}$		.84		$\frac{3}{4}$	.42		$\frac{3}{4}$	.60
4		.95		1	.56		1	.80
$4\frac{1}{2}$		1.08		$1\frac{1}{4}$	.70		$1\frac{1}{4}$	1.00
5		1.19		$1\frac{1}{2}$	.84		$1\frac{1}{2}$	1.19
$5\frac{1}{2}$		1.31		2	1.12		2	1.59
6		1.43		$2\frac{1}{2}$	1.40		$2\frac{1}{2}$	1.99
8		1.91		3	1.68		3	2.39
10		2.39		$3\frac{1}{2}$	1.95		$3\frac{1}{2}$	2.79
$\frac{1}{16}$	$\frac{1}{2}$	.16		4	2.23		4	3.19
	$\frac{3}{4}$	.24		$4\frac{1}{2}$	2.51		$4\frac{1}{2}$	3.59
1		.32		5	2.79		5	3.98
$1\frac{1}{4}$		.40		$5\frac{1}{2}$	3.07		$5\frac{1}{2}$	4.38
$1\frac{1}{2}$		.48		6	3.35		6	4.78
2		.64		7	3.90		7	5.58
$2\frac{1}{2}$		.80		8	4.46		8	6.37
3		.96		10	5.58		10	7.97
$3\frac{1}{2}$		1.12		12	6.69		12	9.56
4		1.27		14	7.81		14	11.16
$4\frac{1}{2}$		1.43		$\frac{1}{2}$	.32		$1\frac{1}{4}$	.44
5		1.59		$\frac{5}{8}$	.40		$\frac{3}{4}$	.66
$5\frac{1}{2}$		1.75		$\frac{3}{4}$	.48		1	.88
6		1.91		1	.64		$1\frac{1}{4}$	1.10
8		2.55		$1\frac{1}{4}$	.80		$1\frac{1}{2}$	1.31
10		3.19		$1\frac{1}{2}$	.96		2	1.75

(Continued on following page)

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

**PRECISION GROUND
FLAT TOOL STEEL
WARPLIS BRAND**

Standard Sizes—18-inch Lengths
(Continued from preceding page)

Thickness	Width (Inch)	Weight per Piece	Thickness	Width (Inch)	Weight per Piece	Thickness	Width (Inch)	Weight per Piece
1 1/64	2 1/2	2.19	7/32	4 1/2	5.02	9/32	6	8.60
3	2.63		5	5.58		7	10.04	
3 1/2	3.07		5 1/2	6.14		8	11.47	
4	3.50		6	6.69		10	14.34	
4 1/2	3.94		7	7.81		12	17.21	
5	4.39		8	8.93		14	20.08	
5 1/2	4.82		10	11.15		5/16	1/2	.80
6	5.26		12	13.39			3/4	1.20
7	6.13		14	15.62			1	1.59
8	7.01		1 5/64	1/2	.60		1 1/4	1.99
10	8.76			3/4	.90		1 1/2	2.39
12	10.51			1	1.19		2	3.19
14	12.27			1 1/4	1.49		2 1/2	3.98
3/16	1/2	.48		1 1/2	1.79		3	4.78
	3/4	.72		2	2.39		3 1/2	5.58
1	.96			2 1/2	2.99		4	6.37
1 1/4	1.20			3	3.58		4 1/2	7.17
1 1/2	1.43			3 1/2	4.18		5	7.97
2	1.91			4	4.78		5 1/2	8.77
2 1/2	2.39			4 1/2	5.38		6	9.56
3	2.87			5	5.97		7	11.16
3 1/2	3.35			5 1/2	6.57		8	12.74
4	3.82			6	7.17		10	15.94
4 1/2	4.30			7	8.36		12	19.12
5	4.78			8	9.56		14	22.32
5 1/2	5.26			10	11.95	1 1/32	1/2	.88
6	5.74			12	14.34		3/4	1.32
7	6.69			14	16.73		1	1.76
8	7.64		1/4	1/2	.64		1 1/4	2.20
10	9.56			3/4	.96		1 1/2	2.62
12	11.47			1	1.27		2	3.51
14	13.39			1 1/4	1.59		2 1/2	4.37
1 3/64	1/2	.52		1 1/2	1.91		3	5.26
	3/4	.78		2	2.55		3 1/2	6.14
1	1.04			2 1/2	3.19		4	7.01
1 1/4	1.29			3	3.82		4 1/2	7.89
1 1/2	1.55			3 1/2	4.46		5	8.77
2	2.08			4	5.10		5 1/2	9.64
2 1/2	2.59			4 1/2	5.74		6	10.52
3	3.11			5	6.37		7	12.27
3 1/2	3.62			5 1/2	7.01		8	14.02
4	4.14			6	7.65		10	17.53
4 1/2	4.66			7	8.93		12	21.03
5	5.18			8	10.20		14	24.54
5 1/2	5.70			10	12.75	3/8	1/2	.96
6	6.21			12	15.30		3/4	1.43
7	7.25			14	17.85		1	1.91
8	8.29		9/32	1/2	.72		1 1/4	2.39
10	10.36			3/4	1.08		1 1/2	2.87
12	12.43			1	1.43		2	3.82
14	14.50			1 1/4	1.79		2 1/2	4.78
7/32	1/2	.56		1 1/2	2.15		3	5.74
	3/4	.84		2	2.87		3 1/2	6.70
1	1.12			2 1/2	3.59		4	7.65
1 1/4	1.39			3	4.30		4 1/2	8.61
1 1/2	1.67			3 1/2	5.02		5	9.56
2	2.23			4	5.74		5 1/2	10.52
2 1/2	2.79			4 1/2	6.45		6	11.47
3	3.35			5	7.17		7	13.39
3 1/2	3.90			5 1/2	7.89		8	15.30
4	4.46						10	19.12

(Continued on following page)

TROIT 1
Twinb:
ail Box 14
13400 Mt

**PRECISION GROUND
FLAT TOOL STEEL**

WARPLIS BRAND

Standard Sizes—18-inch Lengths
(Continued from preceding page)

Thickness	Width (Inch)	Weight per Piece	Thickness	Width (Inch)	Weight per Piece	Thickness	Width (Inch)	Weight per Piece
13/32	12	22.94	1/2	1 1/4	3.19	1 1/16	5	17.54
	14	26.78		1 1/2	3.82		5 1/2	19.29
	1/2	1.04		2	5.10		6	21.05
	3/4	1.56		2 1/2	6.37		7	24.54
	1	2.07		3	7.65		8	28.05
	1 1/4	2.59		3 1/2	8.92		10	35.07
	1 1/2	3.11		4	10.20		12	42.08
	2	4.14		4 1/2	11.48		14	49.10
	2 1/2	5.18		5	12.75		1/4	3.82
	3	6.21		5 1/2	14.03		1 1/4	4.78
7/16	3 1/2	7.25		6	15.30		1 1/2	5.73
	4	8.29		7	17.85		2	7.65
	4 1/2	9.32		8	20.40		2 1/2	9.56
	5	10.36		10	25.50		3	11.47
	5 1/2	11.39		12	30.60		3 1/2	13.39
	6	12.43		14	35.70		4	15.30
	7	14.50	9/16	3/4	2.15		4 1/2	17.22
	8	16.58		1	2.87		5	19.12
	10	20.72		1 1/4	3.59		5 1/2	21.05
	12	24.86		1 1/2	4.30		6	22.95
	14	29.00		2	5.74		7	26.78
15/32	1/2	1.12		2 1/2	7.17		8	30.60
	3/4	1.67		3	8.61		10	38.25
	1	2.23		3 1/2	10.04		12	45.90
	1 1/4	2.79		4	11.48		14	53.55
	1 1/2	3.35		4 1/2	12.91		1/4	4.14
	2	4.46		5	14.34		1 1/4	5.18
	2 1/2	5.58		5 1/2	15.78		1 1/2	6.22
	3	6.69		6	17.22		2	8.29
	3 1/2	7.81		7	20.09		2 1/2	10.36
	4	8.93		8	22.95		3	12.43
7/8	4 1/2	10.04		10	28.70		3 1/2	14.50
	5	11.16		12	34.43		4	16.58
	5 1/2	12.27		14	40.17		4 1/2	18.65
	6	13.39	11/16	3/4	2.39		5	20.72
	7	15.62		1	3.19		5 1/2	22.79
	8	17.85		1 1/4	3.98		6	24.87
	10	22.31		1 1/2	4.78		7	29.01
	12	26.78		2	6.37		8	33.15
	14	31.25		2 1/2	7.97		10	41.45
1 1/8	1/2	1.20		3	9.56		12	49.73
	3/4	1.79		3 1/2	11.16		14	58.02
	1	2.39		4	12.75		1/4	4.46
	1 1/4	2.99		4 1/2	14.34		1 1/4	5.58
	1 1/2	3.59		5	15.94		1 1/2	6.69
	2	4.78		5 1/2	17.54		2	8.93
	2 1/2	5.97		6	19.12		2 1/2	11.16
	3	7.17		7	22.32		3	13.39
	3 1/2	8.37		8	25.50		3 1/2	15.61
	4	9.56		10	31.88		4	17.85
1 1/2	4 1/2	10.76		12	38.25		4 1/2	20.09
	5	11.95		14	44.63		5	22.32
	5 1/2	13.15		1	3.51		5 1/2	24.54
	6	14.34		1 1/4	4.38		6	26.78
	7	16.73		1 1/2	5.26		7	31.25
	8	19.12		2	7.01		8	35.70
	10	23.90		2 1/2	8.77		10	44.63
	12	28.68		3	10.52		12	53.55
	14	33.47		3 1/2	12.27		14	62.48
	1/2	3/4	1 1/16	4	14.03		1 1/4	6.38
	1	2.55		4 1/2	15.78		1 1/2	7.65

(Continued on following page)

STAINLESS
STEELS

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

**PRECISION GROUND
FLAT TOOL STEEL
WARPLIS BRAND**
Standard Sizes—18-inch Lengths
(Continued from preceding page)

Thickness	Width (Inch)	Weight per Piece	Thickness	Width (Inch)	Weight per Piece	Thickness	Width (Inch)	Weight per Piece
1	2	10.20	1 1/8	12	68.85	1 3/8	7	49.10
	2 1/2	12.75		14	80.33		8	56.10
	3	15.30	1 1/4	1 1/2	9.56		10	70.13
	3 1/2	17.85		2	12.75		12	84.15
	4	20.40		2 1/2	15.95		14	98.18
	4 1/2	22.95		3	19.12		1 1/2	12.43
	5	25.50		3 1/2	22.32		2	15.30
	5 1/2	28.05		4	25.50		2 1/2	19.13
	6	30.60		4 1/2	28.70		3	22.95
	7	35.70		5	31.87		3 1/2	26.78
	8	40.80		5 1/2	35.07		4	30.60
	10	50.99		6	38.25		4 1/2	34.43
	12	61.20		7	44.63		5	38.26
	14	71.40		8	50.99		5 1/2	42.08
1 1/8	1 1/2	8.61		10	63.74		6	45.90
	2	11.48		12	76.50		7	53.55
	2 1/2	14.34		14	89.25		8	61.20
	3	17.22	1 1/8	1 1/2	10.52		10	76.50
	3 1/2	20.09		2	14.03		12	91.80
	4	22.95		2 1/2	17.54		14	107.10
	4 1/2	25.82		3	21.05		3	30.60
	5	28.70		3 1/2	24.54		4	40.80
	5 1/2	31.56		4	28.05		6	61.20
	6	34.43		4 1/2	31.56		8	81.60
	7	40.17		5	35.07		10	102.00
	8	45.90		5 1/2	38.57		12	122.40
	10	57.38		6	42.08			

**PRECISION GROUND
SQUARE TOOL STEEL**

WARPLIS BRAND

Standard Sizes—18-inch Lengths

Size (Inch)	Weight per Piece	Size (Inch)	Weight per Piece	Size (Inch)	Weight per Piece	Size (Inch)	Weight per Piece
7/64	.06	15/64	.28	1/2	1.27	1 1/4	7.95
1/8	.08	1/4	.32	9/16	1.61	1 3/8	9.64
9/64	.10	9/32	.40	5/8	1.99	1 1/2	11.50
5/32	.12	5/16	.50	11/16	2.41	1 3/4	15.61
11/64	.15	11/32	.60	3/4	2.87	2	20.40
3/16	.18	3/8	.72	13/16	3.37	2 1/2	31.88
13/64	.21	13/32	.84	7/8	3.90	3	45.90
7/32	.24	7/16	.98	1	5.10	4	81.60
		15/32	1.12	1 1/8	6.45		

TOLERANCE

Thickness: 1 1/4" and lighter $\pm .001"$.

Width: $+.005" - .001"$.

Over 1 1/4" $\pm .002"$.

ANALYSIS

Cold melt electric furnace tool steel of this analysis:

C .90 Mn 1.10 Cr .50 V .15 W .50

HARDENING

Heat slowly, uniformly, to 1440–1490° F.—the high side for heavier work; hold for complete heat penetration. Quench in light oil at 100–125° F. Remove while still warm and draw. A 390° F. draw should show good hardness and toughness, with no appreciable dimension change.

Hardness Values (1" rd. Specimen)

As quenched from 1470° F.....	Rockwell C-65
Tempered 1 hr. 300° F.....	Rockwell C-63
Tempered 1 hr. 400° F.....	Rockwell C-60
Tempered 1 hr. 500° F.....	Rockwell C-59
Tempered 1 hr. 600° F.....	Rockwell C-58

18-8 STAINLESS STEEL SHEETS

TYPE 302

No. 2B FINISH—COLD ROLLED, ANNEALED

SAE 30302 MIL-S-5059 Comp. D or G, Cond. A

Chemical Analysis and Physical Properties, Pages 285, 294.

Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet	Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet			
8 Ga. (.172")								
48x120	7.220	288.7	14 Ga. (.078")					
10 Ga. (.141")								
36x120	5.9062	177.2	30x120	3.2812	82.0			
48x120	5.9062	236.2	36x 96	3.2812	78.7			
60x120	5.9062	295.3	36x120	3.2812	98.4			
60x144	5.9062	354.4	42x120	3.2812	114.8			
72x144	5.9062	425.2	48x 96	3.2812	105.0			
11 Ga. (.125")								
36x 96	5.250	126.0	48x120	3.2812	131.2			
36x120	5.250	157.5	48x144	3.2812	157.4			
48x120	5.250	210.0	54x120	3.2812	147.7			
48x144	5.250	252.0	60x120	3.2814	164.0			
60x120	5.250	262.5	60x144	3.2812	196.9			
60x144	5.250	315.0	72x120	3.2812	196.9			
72x144	5.250	378.0	16 Ga. (.063")					
12 Ga. (.109")								
30x120	4.5937	114.8	30x 96	2.625	52.5			
36x 96	4.5937	110.2	30x120	2.625	65.6			
36x120	4.5937	137.8	36x 96	2.625	63.0			
42x120	4.5937	160.8	36x120	2.625	78.8			
48x 96	4.5937	146.8	42x120	2.625	91.9			
48x120	4.5937	183.7	48x 96	2.625	84.0			
48x144	4.5937	220.5	48x120	2.625	105.0			
54x144	4.5937	248.1	48x144	2.625	126.0			
60x 96	4.5937	183.7	54x120	2.625	118.1			
60x120	4.5937	229.7	56x120	2.625	122.5			
60x144	4.5937	275.6	60x120	2.625	131.3			
72x120	4.5937	275.6	60x144	2.625	157.5			
13 Ga. (.094")								
30x120	3.938	98.5	18 Ga. (.050")					
36x 96	3.938	94.5	30x 96	2.100	42.0			
36x120	3.938	118.1	30x120	2.100	52.5			
48x120	3.938	157.5	36x 96	2.100	50.4			
60x 96	3.938	157.5	36x120	2.100	63.0			
60x120	3.938	196.9	42x120	2.100	73.5			
19 Ga. (.044")								
36x120	1.838	55.1	48x 96	2.100	67.2			

(Continued on following page)

STAINLESS
STEELS

ALUMINUM

BRASS
COPPER

WEIGHTS
DATA

18-8 STAINLESS STEEL SHEETS

TYPE 302

No. 2B FINISH—COLD ROLLED, ANNEALED

SAE 30302 MIL-S-5059 Comp. D or G, Cond. A

Chemical Analysis and Physical Properties, Pages 285, 294.

(Continued from preceding page)

Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet	Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet
20 Ga. (.0375")			24 Ga. (.025")		
30x 96	1.575	31.5	30x 96	1.050	21.0
30x120	1.575	39.4	30x120	1.050	26.3
36x 96	1.575	37.8	36x 96	1.050	25.2
36x120	1.575	47.3	36x120	1.050	31.5
42x120	1.575	55.1	48x 96	1.050	33.6
48x 96	1.575	50.4	48x120	1.050	42.0
48x120	1.575	63.0	26 Ga. (.01875")		
22 Ga. (.03125")			24x 96	.7875	12.6
30x 96	1.3125	26.3	30x 96	.7875	15.8
30x120	1.3125	32.8	30x120	.7875	19.7
36x 96	1.3125	31.5	36x 96	.7875	18.9
36x120	1.3125	39.4	36x120	.7875	23.6
48x 96	1.3125	42.0	48x 96	.7875	25.2
48x120	1.3125	52.5	48x120	.7875	31.5
28 Ga. (.0156")			28 Ga. (.0156")		
36x 96	1.3125	42.0	36x 96	.6562	15.7
36x120	1.3125	52.5	36x120	.6562	19.7

18-8 STAINLESS STEEL SHEETS

TYPE 302

No. 4 FINISH—POLISHED ONE SIDE

SAE 30302 MIL-S-5059 Comp. D or G, Cond. A

Chemical Analysis and Physical Properties, Pages 285, 294.

Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet	Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet
10 Ga. (.141")			12 Ga. (.109")		
36x120	5.9062	177.2	30x120	4.5937	114.9
48x120	5.9062	236.2	36x 96	4.5937	110.2
60x120	5.9062	295.3	36x120	4.5937	137.8
60x144	5.9062	354.4	42x120	4.5937	160.8
11 Ga. (.125")			48x 96	4.5937	146.8
36x 96	5.250	126.0	48x120	4.5937	183.7
36x120	5.250	157.5	48x144	4.5937	220.5
48x120	5.250	210.0	54x144	4.5937	248.1
48x144	5.250	252.0	60x 96	4.5937	183.7
60x120	5.250	262.5	60x120	4.5937	229.7
60x144	5.250	315.0	60x144	4.5937	275.6

(Continued on following page)

DETROIT
Twin
Mail Box
13400

18-8 STAINLESS STEEL SHEETS TYPE 302

No. 4 FINISH—POLISHED ONE SIDE

SAE 30302 MIL-S-5059 Comp. D or G, Cond. A

Chemical Analysis and Physical Properties, Pages 285, 294.

(Continued from preceding page)

Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet	Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet
13 Ga. (.094")					
30x120	3.938	98.5	54x120	2.100	94.5
36x 96	3.938	94.5	56x120	2.100	98.0
36x120	3.938	118.1	60x120	2.100	105.0
48x120	3.938	157.5			
60x 96	3.938	157.5			
60x120	3.938	196.9			
14 Ga. (.078")					
30x120	3.2812	82.0	30x 96	1.575	31.5
36x 96	3.2812	78.7	30x120	1.575	39.4
36x120	3.2812	98.4	36x 96	1.575	37.8
42x120	3.2812	114.8	36x120	1.575	47.3
48x 96	3.2812	105.0	42x120	1.575	55.1
48x120	3.2812	131.2	48x 96	1.575	50.4
48x144	3.2812	157.5	48x120	1.575	63.0
54x120	3.2812	147.7			
60x120	3.2812	164.0			
60x144	3.2812	196.9			
16 Ga. (.063")					
30x 96	2.625	52.5	30x 96	1.3125	26.3
30x120	2.625	65.6	30x120	1.3125	32.8
36x 96	2.625	63.0	36x 96	1.3125	31.5
36x120	2.625	78.8	36x120	1.3125	39.4
42x120	2.625	91.9	48x 96	1.3125	42.0
48x 96	2.625	84.0	48x120	1.3125	52.5
48x120	2.625	105.0			
48x144	2.625	126.0			
54x120	2.625	118.1			
56x120	2.625	122.5			
60x120	2.625	131.3			
60x144	2.625	157.5			
18 Ga. (.050")					
30x 96	2.100	42.0	24x 96	.7875	12.6
30x120	2.100	52.5	30x 96	.7875	15.8
36x 96	2.100	50.4	30x120	.7875	19.7
36x120	2.100	63.0	36x 96	.7875	18.9
42x120	2.100	73.5	36x120	.7875	23.6
48x 96	2.100	67.2	48x 96	.7875	25.2
48x120	2.100	84.0	48x120	.7875	31.5
20 Ga. (.0375")					
22 Ga. (.03125")					
24 Ga. (.025")					
26 Ga. (.01875")					

LUMINUM

BRASS
COPPERWEIGHTS
DATA

STAINLESS STEEL SHEETS TYPE 304

No. 2B Finish—Cold Rolled, Annealed

Can also be furnished

No. 4 Finish—Polished One Side

S.A.E. 30304

Chemical Analysis and Physical Properties, Pages 285, 294.

Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet	Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet
8 Ga. (.172") 48x120	7.220	288.7	14 Ga. (.078") 48x120	3.2812	131.2
10 Ga. (.141") 36x120	5.9062	177.2	60x144	3.2812	196.9
48x120	5.9062	236.2	72x144	3.2812	236.2
60x120	5.9062	295.3	16 Ga. (.063") 36x 96	2.625	63.0
60x144	5.9062	354.4	36x120	2.625	78.8
72x144	5.9062	425.2	48x 96	2.625	84.0
11 Ga. (.125") 36x 96	5.250	126.0	48x120	2.625	105.0
36x120	5.250	157.5	60x144	2.625	157.5
48x120	5.250	210.0	72x144	2.625	189.0
48x144	5.250	252.0	18 Ga. (.050") 36x 96	2.100	50.4
60x144	5.250	315.0	36x120	2.100	63.0
72x144	5.250	378.0	48x120	2.100	84.0
12 Ga. (.109") 36x 96	4.5937	110.2	20 Ga. (.0375") 30x120	1.575	39.4
36x120	4.5937	137.8	36x120	1.575	47.3
48x120	4.5937	183.7	48x120	1.575	63.0
60x 96	4.5937	183.7	22 Ga. (.03125") 36x120	1.3125	39.4
60x144	4.5937	275.6	48x120	1.3125	52.5
72x144	4.5937	330.8	24 Ga. (.025") 36x120	1.050	31.5
13 Ga. (.094") 36x 96	3.938	94.5	48x 96	1.050	33.6
60x 96	3.938	157.5	26 Ga. (.01875") 36x 96	.7875	18.9
14 Ga. (.078") 36x 96	3.2812	78.7	36x120	.7875	23.1
36x120	3.2812	98.4			

STAINLESS STEEL SHEETS

TYPE 304L

EXTRA LOW CARBON

No. 2B Finish—Cold Rolled, Annealed

Chemical Analysis and Physical Properties, Pages 285, 294.

Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet	Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet
8 Ga. (.172") 48x120	7.220	288.7	14 Ga. (.078") 36x120	3.2812	98.4
48x120	7.220	288.7	48x120	3.2812	131.2
10 Ga. (.141") 48x120	5.906	236.2	16 Ga. (.063") 36x 96	2.625	63.0
48x120	5.906	236.2	36x120	2.625	78.8
11 Ga. (.125") 48x120	5.250	210.0	48x120	2.625	105.0
48x120	5.250	210.0	18 Ga. (.050") 48x120	2.100	84.0
12 Ga. (.109") 48x120	4.5937	183.7			

TROIT
Tw
Mail Box
13400 N

STAINLESS STEEL SHEETS

TYPE 316

No. 2B Finish—Cold Rolled, Annealed

S.A.E. 30316

Chemical Analysis and Physical Properties, Pages 285, 294.

Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet	Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet
8 Ga. (.172")			16 Ga. (.063")		
48x120	7.220	288.7	36x120	2.625	78.8
48x120	5.9062	236.2	48x120	2.625	105.0
60x120	5.9062	295.3	60x144	2.625	157.5
60x144	5.9062	354.4	18 Ga. (.050")		
10 Ga. (.141")			36x120	2.100	63.0
36x120	5.9062	177.2	48x120	2.100	84.0
48x120	5.9062	236.2	20 Ga. (.0375")		
60x120	5.9062	295.3	36x120	1.575	47.3
60x144	5.9062	354.4	48x120	1.575	63.0
11 Ga. (.125")			22 Ga. (.03125")		
36x120	5.250	157.5	36x 96	1.3125	31.5
48x120	5.250	210.0	36x120	1.3125	39.4
60x144	5.250	315.0	48x120	1.3125	52.5
12 Ga. (.109")			24 Ga. (.025")		
36x120	4.5937	137.8	36x 96	1.050	25.2
48x120	4.5937	183.7	36x120	1.050	31.5
60x144	4.5937	275.6	48x120	1.050	42.0
14 Ga. (.078")			26 Ga. (.01875")		
36x120	3.2812	98.4	36x 96	.7875	18.9
48x120	3.2812	131.2	36x120	.7875	23.6
60x144	3.2812	196.9			

STAINLESS STEEL SHEETS

TYPE 316L

EXTRA LOW CARBON

No. 2B Finish—Cold Rolled, Annealed

Chemical Analysis and Physical Properties, Pages 285, 294.

Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet	Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet
8 Ga. (.172")			12 Ga. (.109")		
48x120	7.220	288.7	48x120	4.5937	183.7
10 Ga. (.141")			14 Ga. (.078")		
48x120	5.906	236.2	36x120	3.2812	98.4
48x120	5.906	236.2	48x120	3.2812	131.2
11 Ga. (.125")			16 Ga. (.063")		
48x120	5.250	210.0	48x120	2.625	105.0

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

STAINLESS STEEL SHEETS**TYPE 309****No. 2B Finish—Cold Rolled, Annealed**

S.A.E. 30309

Chemical Analysis, Page 285.

Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet	Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet
10 Ga. (.141")			14 Ga. (.078")		
48x120	5.9062	236.2	36x120	3.2812	98.4
			48x120	3.2812	131.2
11 Ga. (.125")			16 Ga. (.063")		
48x120	5.250	210.0	36x120	2.625	78.8
12 Ga. (.109")			48x120	2.625	105.0
36x120	4.5937	137.8			
48x120	4.5937	183.7			

STAINLESS STEEL SHEETS**TYPE 321****No. 2D Finish—Cold Rolled, Annealed**

S.A.E. 30321, AMS 5510, MIL-S-6721A Comp. T

Chemical Analysis, Page 285.

Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet	Stainless Steel Gage Width and Length	Weight Lbs. Per Sq. Ft.	Est. Weight Per Sheet
10 Ga. (.141")			.040"		
48x120	5.9062	236.2	36x120	1.6800	50.4
12 Ga. (.109")			20 Ga. (.0375")		
48x120	4.5937	183.7	36x120	1.5750	47.3
.090"			.036"		
36x120	3.7800	113.4	36x120	1.5120	45.4
.080"			.0321"		
36x120	3.3600	100.8	36x120	1.3482	40.4
14 Ga. (.078")			24 Ga. (.025")		
36x120	3.2812	98.4	36x120	1.0500	31.5
48x120	3.2812	131.2	.020"		
16 Ga. (.0625")			36x120	.8400	25.2
36x120	2.625	78.8	26 Ga. (.01875")		
48x120	2.625	105.0	36x120	.7875	23.6
18 Ga. (.050")			.016"		
36x120	2.100	63.0	36x120	.6720	20.2
48x120	2.100	84.0			

ROIT 1
Twinb
il Box 14
3400 Mt

STAINLESS STEEL SHEETS TYPE 410

No. 2D Finish—Cold Rolled, Annealed
S.A.E. 51410

Chemical Analysis, Page 286.

Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet	Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet
10 Ga. (.141") 48x120	5.794	231.8	14 Ga. (.078") 36x120	3.219	96.6
11 Ga. (.125") 48x120	5.150	206.0	48x120	3.219	112.7
12 Ga. (.109") 48x120	4.506	180.2	16 Ga. (.063") 36x120	2.575	77.3
			48x120	2.575	103.0

STAINLESS STEEL SHEETS TYPE 430

No. 2B Finish—Cold Rolled, Annealed

Can also be furnished
No. 4 Finish—Polished One Side

S.A.E. 51430

Chemical Analysis and Physical Properties, Pages 286, 294.

Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet	Stainless Steel Gage Width and Length	Weight lbs. per Square Foot	Est. Weight per Sheet
*3/16 (.1875") 48x120		331.80	22 Ga. (.03125") 30x120	1.288	32.2
12 Ga. (.109") 36x120	4.506	135.2	36x 96	1.288	30.9
48x120	4.506	180.2	36x120	1.288	38.6
			48x120	1.288	51.5
14 Ga. (.078") 36x120	3.219	96.6	24 Ga. (.025") 30x120	1.030	25.8
48x120	3.219	128.8	36x 96	1.030	24.7
16 Ga. (.063") 36x120	2.575	77.3	36x120	1.030	30.9
42x120	2.575	90.1	48x 96	1.030	33.0
48x120	2.575	103.0	48x120	1.030	41.2
18 Ga. (.050") 36x 96	2.060	49.4	26 Ga. (.01875") 36x120	.772	18.5
36x120	2.060	61.8	36x 96	.772	23.2
48x120	2.060	82.4			
20 Ga. (.0375") 30x120	1.545	38.6	28 Ga. (.0156") 36x120	.644	15.5
36x 96	1.545	37.1	36x120	.644	19.3
36x120	1.545	46.3			
48x120	1.545	61.7			

*This Size Hot Rolled, Annealed & Pickled Plate.

G

LUMINUM

BRASS
COPPER

WEIGHTS
DATA

STAINLESS STEEL PLATES

TYPES—302, 304, 304L, 316, 316L

HOT ROLLED, ANNEALED AND PICKLED

Chemical Analysis, Page 285.

Thickness and Size Inches	Estimated Weight Per Plate	302	304 ASTM A-240 Gr. S	304L	316 ASTM A-240 Gr. M	316L
3/16 x *48 x 120	331.80	..	X	X	X	X
48 x 240	663.60	..	X	..	X	..
60 x 120	414.75	..	X	..	X	..
60 x 240	829.50	..	X	..	X	X
72 x 120	497.70	..	X	..	X	..
72 x 240	995.40	X	X	X	X	..
80 x 240	1106.01	X	X	X	X	X
96 x 240	1370.56	X	X	X	X	..
1/4 x 48 x 120	438.24	..	X	X	X	X
48 x 240	876.48	..	X	..	X	..
60 x 120	547.80	..	X	..	X	..
60 x 240	1095.60	..	X	..	X	..
72 x 120	657.36	..	X	X	X	..
72 x 240	1314.72	X	X	X	X	X
80 x 240	1460.81	X	X	X	X	X
96 x 240	1802.56	X	X	X	X	X
5/16 x 80 x 240	1791.61	..	X	X	X	X
96 x 240	2191.20	..	X	..	X	..
3/8 x 48 x 120	644.92	..	X	..	X	..
48 x 240	1289.84	..	X	..	X	..
60 x 120	806.15	..	X	..	X	..
60 x 240	1612.30	..	X	..	X	..
72 x 120	967.38	..	X	..	X	..
72 x 240	1934.76	X	X	..	X	..
80 x 240	2149.74	X	X	X	X	X
96 x 240	2629.28	..	X	X	X	X
1/2 x 48 x 120	859.92	..	X	..	X	..
48 x 240	1719.84	..	X	..	X	..
60 x 120	1074.90	..	X	..	X	..
60 x 240	2149.80	..	X	..	X	..
72 x 120	1289.88	..	X	..	X	..
72 x 240	2579.76	X	X	..	X	..
80 x 240	2866.41	X	X	X	X	X
96 x 240	3505.76	..	X	X	X	X

*This size also stocked in TYPE 430.
(Continued on following page)

ROIT
Twin
il Box 1
13400 N

STAINLESS STEEL PLATES**TYPES—302, 304, 304L, 316, 316L****HOT ROLLED, ANNEALED AND PICKLED**

Chemical Analysis, Page 285.

(Continued from preceding page)

Thickness and Size Inches	Estimated Weight per Plate	302	304 ASTM A-240 Gr. S	304L	316 ASTM A-240 Gr. M	316L
5/8 x 80 x 240	3548.55	..	X	..	X	..
96 x 240	4320.32	..	X	..	X	..
3/4 x 80 x 240	4258.29	..	X	X	X	..
96 x 240	5184.32	..	X	..	X	..
7/8 x 80 x 240	4968.02	..	X	..	X	..
1 x 80 x 240	5677.63	..	X	X	X	..
96 x 240	6912.32	..	X	..	X	..
1 1/8 x 80 x 240	6387.37	..	X	..	..	..
1 1/4 x 80 x 240	7097.10	..	X	..	X	..
1 1/2 x 80 x 240	8516.44	..	X	..	X	..
96 x 240	10368.64	..	X	..	X	..
1 3/4 x 80 x 240	9935.92	..	X	..	X	..
2 x 80 x 240	11355.26	..	X	..	X	..
2 1/4 x 80 x 240	12774.66	..	X	..	X	..

STAINLESS STEEL PLATE

Weight Per Square Foot in Pounds

Thickness	Width		Thickness	Width	
	Up to 80" Incl.	Over 80"		Up to 80" Incl.	Over 80"
5/16	8.295	8.566	1	42.582	43.202
1/4	10.956	11.266	1 1/8	47.905	48.603
5/16	13.437	13.695	1 1/4	53.228	54.004
3/8	16.123	16.433	1 1/2	63.873	64.804
1/2	21.498	21.911	1 3/4	74.519	75.605
5/8	26.614	27.002	2	85.164	86.405
3/4	31.937	32.402	2 1/4	95.809	97.205
7/8	37.260	37.803			

LUMINUM

BRASS COPPER

WEIGHTS DATA

STAINLESS ROUNDS
TYPE 303

ANNEALED

FREE MACHINING

S.A.E. 30303F, AMS-5640, MLS-S-7720 Comp. 303S Cond. A
Chemical Analysis and Physical Properties, Pages 285, 294.

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar	Random Lengths in Feet			
			Cold Drawn Ident. Yellow	Centerless Ground Ident. Gold	Ground & Polished Std. Tol. Ident. Pink	Grd. & Pol. Tol. ± .0005 Ident. Brown
1/16	.010	.120	12	..	..	..
3/32	.024	.288	12	12	..	..
1/8	.042	.504	12	12	12	12
5/32	.065	.780	12	12	12	..
3/16	.094	1.13	12	12	12	12
7/32	.128	1.54	12	12	12	..
1/4	.167	2.00	12	12	12	12
9/32	.211	2.53	12	12	..	..
5/16	.261	3.13	12	12	12	12
11/32	.316	3.79	12	..	..	..
3/8	.376	4.51	12	12	12	12
13/32	.441	5.29	12	12	..	..
7/16	.511	6.13	12	12	12	12
15/32	.587	7.04	12	12	..	..
1/2	.668	8.02	12	12	12	12
17/32	.754	9.05	..	12	..	..
9/16	.845	10.14	..	12	..	12
19/32	.942	11.30	..	12	..	..
5/8	1.04	12.48	..	12	12	12
21/32	1.15	13.80	..	12	..	..
11/16	1.26	15.12	..	12	..	..
3/4	1.50	18.00	..	12	12	12
13/16	1.76	21.12	..	12	..	..
7/8	2.04	24.48	..	12	12	12
29/32	2.19	26.28	..	12	..	..
15/16	2.35	28.20	..	12	..	..
1	2.67	32.04	..	12	12	12
1 1/16	3.01	36.12	..	12	..	..
1 1/8	3.38	40.56	..	12	12	..
1 3/16	3.77	45.24	..	12	..	..
1 1/4	4.17	50.04	..	12	12	..
1 5/16	4.60	55.20	..	12	..	..
1 3/8	5.05	60.60	..	12	..	..
1 7/16	5.52	66.24	..	12	12	..
1 1/2	6.01	72.12	..	12	12	..
1 9/16	6.52	78.24	..	12	..	..

(Continued on following page)

DETROIT
Twin
Mail Box 1
13400 M

STAINLESS ROUNDS
TYPE 303
ANNEALED

FREE MACHINING

SAE 30303F, AMS-5640, MIL-S-7720 Comp. 303S Cond. A.
 Chemical Analysis and Physical Properties, Pages 285, 294.
 (Continued from preceding page)

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar	Random Lengths in Feet			
			Cold Drawn Ident. Yellow	Centerless Ground Ident. Gold	Ground & Polished Std. Tol. Ident. Pink	Grd. & Pol. Tol. $\pm .0005$ Ident. Brown
1 5/8	7.05	84.60	..	12	12	..
1 11/16	7.60	91.20	..	12	..	..
1 3/4	8.18	98.16	..	12	..	..
1 13/16	8.77	105.24	..	12	..	..
1 7/8	9.39	112.68	..	12	..	..
1 15/16	10.02	120.24	..	12	..	..
2	10.68	128.16	..	12	..	..
2 1/16	11.36	136.32	..	12	..	..
2 1/8	12.06	144.72	..	12	..	..
2 3/16	12.78	153.36	..	12	..	..
2 1/4	13.52	162.24	..	12	..	..
2 5/16	14.28	171.36	..	12	..	..
2 3/8	15.06	180.72	..	12	..	..
2 7/16	15.87	190.44	..	12	..	..
2 1/2	16.69	200.28	..	12	..	..
2 9/16	17.53	210.36	..	12	..	..
2 5/8	18.40	220.80	..	12	..	..
2 11/16	19.29	231.48	..	12	..	..
2 3/4	20.20	242.40	..	12	..	..
2 13/16	21.12	253.44	..	12	..	..
2 7/8	22.07	264.84	..	12	..	..
2 15/16	23.04	276.48	..	12	..	..
3	24.03	288.36	..	12	..	..
3 1/8	26.08	312.96	..	12	..	..
3 1/4	28.21	338.52	..	12	..	..
3 3/8	30.42	365.04	..	12	..	..
3 1/2	32.71	392.52	..	12	..	..
3 5/8	35.09	421.08	..	12	..	..
3 3/4	37.55	450.60	..	12	..	..
4	42.73	512.76	..	12	..	..
4 1/4	48.23	578.80	..	12	..	..
4 1/2	54.08	648.90	..	12	..	..
4 3/4	60.25	723.00	..	12	..	..
5	66.76	801.11	..	12	..	..
5 1/2	80.78	969.36	..	12	..	..
6	96.13	1153.56	..	12	..	..

LUMINUM

BRASS
COPPERWEIGHTS
DATA

STAINLESS ROUNDS**TYPE 302-304****ANNEALED AND GROUNDED**

Chemical Analysis and Physical Properties, Pages 285, 294.

Identification Color: Cold Drawn—Red; Annealed & Ground—Grey.

Size in Inches	Weight per Ft. Lbs.	Est. Wt. per 12' Bar	Random Lengths Feet	Size in Inches	Weight per Ft. Lbs.	Est. Wt. per 12' Bar	Random Lengths Feet
1/8*	.042	.504	12	1 3/4	8.18	98.16	12
3/16*	.094	1.13	12	1 7/8	9.39	112.68	12
1/4*	.167	2.00	12	2	10.68	128.16	12
5/16*	.261	3.13	12	2 1/8	12.06	144.72	12
3/8*	.376	4.51	12	2 1/4	13.52	162.24	12
7/16*	.511	6.13	12	2 3/8	15.06	180.72	12
1/2*	.668	8.02	12	2 1/2	16.69	200.28	12
9/16	.845	10.14	12	2 5/8	18.40	220.80	12
5/8	1.04	12.48	12	2 3/4	20.20	242.40	12
11/16	1.26	15.12	12	2 7/8	22.07	264.84	12
3/4	1.50	18.00	12	3	24.03	288.36	12
13/16	1.76	21.12	12	3 1/8	26.08	312.96	12
7/8	2.04	24.48	12	3 1/4	28.21	338.52	12
15/16	2.35	28.20	12	3 1/2	32.71	392.52	12
1	2.67	32.04	12	4	42.73	512.76	12
1 1/8	3.38	45.24	12	4 1/2	54.08	648.96	12
1 1/4	4.17	50.04	12	4 3/4	60.25	723.00	12
1 3/8	5.05	60.60	12	5	66.76	801.12	12
1 7/16	5.52	66.24	12	5 1/2	80.78	969.36	12
1 1/2	6.01	72.12	12	6	96.13	1153.56	12
1 5/8	7.05	84.60	12				

*Cold Drawn Finish.

STAINLESS ROUNDS**TYPE 321**

AMS 5645

Chemical Analysis, Page 285.

Identification Color—Gold.

Size in Inches	Weight Per Ft. Lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet	Size in Inches	Weight Per Ft. Lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet
3/16*	.094	1.13	12	2 1/4†	13.52	162.24	12
1/4*	.167	2.00	12	2 1/2†	16.69	200.28	12
5/16*	.261	3.13	12	2 3/4†	20.20	242.40	12
3/8*	.376	4.51	12	3 †	24.03	288.36	12
7/16*	.511	6.13	12	3 1/8†	26.08	312.96	12
1/2*	.668	8.02	12	3 1/4†	28.21	338.52	12
5/8**	1.04	12.48	12	3 1/2†	32.71	392.52	12
3/4**	1.50	18.00	12	3 3/4†	37.55	450.60	12
7/8**	2.04	24.48	12	4 †	42.73	512.76	12
1 ***	2.67	32.04	12	4 1/4†	48.23	578.76	12
1 1/8**	3.38	40.56	12	4 3/8†	51.11	613.34	12
1 1/4**	4.17	50.04	12	4 3/4†	60.25	723.00	12
1 3/8**	5.05	60.60	12	4 15/16†	61.85	742.20	12
1 1/2**	6.01	72.12	12	4 7/8†	63.46	761.56	12
1 3/4†	8.18	98.16	12	5 1/2†	80.78	969.36	12
2 †	10.68	128.16	12				

*These sizes Annealed and Cold Drawn.

**These sizes Annealed and Centerless Ground.

†These sizes Hot Rolled Annealed and Pickled.

DETROIT
Twin
Mail Box
13400

STAINLESS ROUNDS**TYPE 316****ANNEALED, CENTERLESS GROUND**

MIL-S-7720 Comp. 316-Condition A MIL-S-853-Class 9-Type A
Chemical Analysis, Page 285. Identification Color: Green.

Size in Inches	Weight per Ft. lbs.	Est. Wt. per 12' Bar	Random Lengths Feet
1/8*	.042	.504	12
3/16*	.094	1.13	12
1/4*	.167	2.00	12
5/16*	.261	3.13	12
3/8*	.376	4.51	12
7/16*	.511	6.13	12
1/2*	.668	8.02	12
9/16	.845	10.14	12
5/8	1.04	12.48	12
11/16	1.26	15.12	12
3/4	1.50	18.00	12
13/16	1.76	21.12	12
7/8	2.04	24.48	12
15/16	2.35	28.20	12
1	2.67	32.04	12
1 1/16	3.01	36.12	12
1 1/8	3.38	40.56	12
1 3/16	3.77	45.24	12
1 1/4	4.17	50.04	12
1 5/16	4.60	55.20	12
1 3/8	5.05	60.60	12
1 7/16	5.52	66.24	12
1 1/2	6.01	72.12	12
1 5/8	7.05	84.60	12
1 11/16	7.60	91.20	12
1 3/4	8.18	98.16	12
1 7/8	9.39	112.68	12
1 15/16	10.02	120.24	12
2	10.68	128.16	12
2 1/8	12.06	144.72	12
2 1/4	13.52	162.24	12
2 5/16	14.28	171.36	12
2 3/8	15.06	180.72	12
2 7/16	15.87	190.44	12
2 1/2	16.69	200.28	12
2 5/8	18.40	220.80	12
2 3/4	20.20	242.40	12
2 7/8	22.07	264.84	12
2 15/16	23.04	276.48	12
3	24.03	288.36	12
3 1/8	26.08	312.96	12
3 1/4	28.21	338.52	12
3 3/8	30.42	365.04	12
3 1/2	32.71	392.52	12
4	42.73	512.76	12
4 1/2	54.08	648.90	12
5	66.76	801.11	12
6	96.13	1153.56	12

*Cold Drawn Finish.

STAINLESS HALF OVALS**TYPE 302—304****ANNEALED COLD DRAWN****12 FOOT RANDOM LENGTHS**

Chemical Analysis, Page 285. Identification Color—302 Brown, 304 Red.

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12 Ft. Bar	Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12 Ft. Bar
3/16 x 3/4	.384	4.61	3/8 x 1	1.000	12.00
1/4 x 1	.650	7.80	5/16 x 1 1/4	1.000	12.00

LUMINUM

BRASS

COPPER

WEIGHTS
DATA



STAINLESS ROUNDS

TYPE 416



ANNEALED

FREE MACHINING

SAE 51416F, AMS 5610, MIL-S-853 Class 6 Type C
Chemical Analysis and Physical Properties, Pages 286, 294.

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 12' Bar Pounds	Random Lengths in Feet			Grd. & Pol. Accuracy Tol. ± .0005 Ident. Aluminum
			Cold Drawn Ident. Lavender	Centerless Ground Ident. Orange	Ground & Polished Std. Tol. Ident. Blue	
1/16	.010	.13	12	..	..	..
3/32	.024	.288	12	..	..	12
1/8	.042	.504	12	12	12	12
5/32	.065	.780	12	12	..	12
3/16	.094	1.13	12	12	12	12
7/32	.128	1.54	12	12	12	12
1/4	.167	2.00	12	12	12	12
9/32	.211	2.53	12	12	12	..
5/16	.261	3.13	12	12	12	12
11/32	.316	3.79	12	12	..	..
3/8	.376	4.51	12	12	12	12
13/32	.441	5.29	12	..	..	..
7/16	.511	6.13	12	12	12	12
15/32	.587	7.04	12	12	..	..
1/2	.668	8.02	12	12	12	12
17/32	.754	9.05	..	12	..	..
9/16	.845	10.14	..	12	..	12
19/32	.942	11.30	..	12	..	..
5/8	1.04	12.48	..	12	12	12
21/32	1.15	13.80	..	12	..	..
11/16	1.26	15.12	..	12	..	12
3/4	1.50	18.00	..	12	12	12
13/16	1.76	21.12	..	12	..	..
27/32	1.90	22.80	..	12	..	..
7/8	2.04	24.48	..	12	12	..
15/16	2.35	28.20	..	12	..	..
1	2.67	32.04	..	12	12	12
11/16	3.01	36.12	..	12	..	..
1 1/8	3.38	40.56	..	12	..	..
13/16	3.77	45.24	..	12	..	..
1 1/4	4.17	50.04	..	12	12	..
15/16	4.60	55.20	..	12	..	..
1 3/8	5.05	60.60	..	12	..	..
17/16	5.52	66.24	..	12	..	..

(Continued on following page)

DETROIT
T
Mail Box
13400

STAINLESS ROUNDS

TYPE 416

ANNEALED

FREE MACHINING

SAE 51416F, AMS 5610, MIL-S-853 Class 6 Type C
Chemical Analysis and Physical Properties, Pages 286, 294.
(Continued from preceding page)

Size in Inches	Est. Wt. per Ft. Pounds	Est. Wt. 12' Bar Pounds	Random Lengths in Feet				
			Cold Drawn Ident. Lavender	Centerless Ground Ident. Orange	Ground Polished Std. Tol. Ident. Blue	Grd. & Pol. Tol. $\pm .0005$ Ident. Aluminum	
1½	6.01	72.12	..	12	..	..
1⁹/₁₆	6.52	78.24	..	12	..	..
1⁷/₈	7.05	84.60	..	12	..	..
1¹¹/₁₆	7.60	91.20	..	12	..	..
1³/₄	8.18	98.16	..	12	..	..
1¹³/₁₆	8.77	105.24	..	12	..	..
1⁷/₈	9.36	112.68	..	12	..	..
1¹⁵/₁₆	10.02	120.24	..	12	..	..
2	10.68	128.16	..	12	..	..
2¹/₁₆	11.36	136.32	..	12	..	..
2¹/₈	12.06	144.72	..	12	..	..
2³/₁₆	12.78	153.36	..	12	..	..
2¼	13.52	162.24	..	12	..	..
2⁵/₁₆	14.28	171.36	..	12	..	..
2³/₈	15.06	180.72	..	12	..	..
2⁷/₁₆	15.87	190.44	..	12	..	..
2½	16.69	200.28	..	12	..	..
2⁵/₈	18.40	220.80	..	12	..	..
2¾	20.20	242.40	..	12	..	..
2⁷/₈	22.07	264.84	..	12	..	..
3	24.03	288.36	..	12	..	..
3¹/₈	26.08	312.96	..	12	..	..
3¹/₄	28.21	338.52	..	12	..	..
3³/₈	30.42	365.04	..	12	..	..
3¹/₂	32.71	392.52	..	12	..	..
3¾	37.55	450.60	..	12	..	..
4	42.73	512.76	..	12	..	..
4¹/₄	48.23	578.80	..	12	..	..
4¹/₂	54.08	648.90	..	12	..	..
4¾	60.25	723.00	..	12	..	..
5	66.76	801.11	..	12	..	..

LUMINUM

BRASS
COPPERWEIGHTS
DATA

STAINLESS ROUNDS**TYPE 440F-Se—440C-FM****ANNEALED AND GROUNDED**

SAE 51440F, AMS 5632A

Full Stainless Properties Developed by Heat Treatment.
 Chemical Analysis, Page 286.
 Identification Color: Black.

Size in Inches	Weight Per Ft. Lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet	Size in Inches	Weight Per Ft. Lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet
$\frac{1}{8}^*$	.042	.504	12	$1\frac{3}{8}$	5.05	60.60	12
$\frac{3}{16}^*$	.094	1.13	12	$1\frac{1}{2}$	6.01	72.12	12
$\frac{1}{4}^*$	.167	2.00	12	$1\frac{5}{8}$	7.05	84.60	12
$\frac{5}{16}^*$	.261	3.13	12	$1\frac{3}{4}$	8.18	98.16	12
$\frac{3}{8}^*$	.376	4.51	12	2	10.68	128.16	12
$\frac{1}{2}^*$	.668	8.02	12	$2\frac{1}{4}$	13.62	162.24	12
$1\frac{7}{32}$	.754	9.05	12	$2\frac{5}{16}$	14.28	171.36	12
$\frac{9}{16}$	.854	10.14	12	$2\frac{3}{8}$	15.06	180.72	12
$\frac{5}{8}$	1.04	12.48	12	$2\frac{1}{2}$	16.69	200.28	12
$1\frac{1}{16}$	1.26	15.12	12	$2\frac{5}{8}$	18.40	220.80	12
$\frac{3}{4}$	1.50	18.00	12	$2\frac{3}{4}^{**}$	20.20	242.40	12
$\frac{7}{8}$	2.04	24.48	12	$3\frac{1}{4}^{**}$	28.21	338.52	12
1	2.67	32.04	12	$3\frac{3}{4}^{**}$	37.55	450.60	12
$1\frac{1}{16}$	3.01	36.12	12	4^{**}	42.73	512.76	12
$1\frac{1}{8}$	3.38	40.56	12	5^{**}	66.76	801.11	12
$1\frac{1}{4}$	4.17	50.04	12				

*Also stocked Cold Drawn.

**Hot Rolled, Annealed.

STAINLESS SQUARES**TYPE 303****ANNEALED COLD DRAWN****FREE MACHINING**

S.A.E. 30303F, AMS-5640, MIL-5-7720 Comp. 303S Cond. A
 Chemical Analysis, Page 285.
 Identification Color: Yellow.

Size in Inches	Weight per Ft. lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet	Size in Inches	Weight per Ft. lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet
$\frac{1}{8}$	.053	.636	12	$\frac{3}{4}$	1.91	22.92	12
$\frac{3}{16}$	.120	1.44	12	$\frac{7}{8}$	2.60	31.20	12
$\frac{1}{4}$	.213	2.56	12	1	3.40	40.80	12
$\frac{5}{16}$	.332	3.98	12	$1\frac{1}{8}$	4.30	51.60	12
$\frac{3}{8}$	.478	5.74	12	$1\frac{1}{4}$	5.31	63.72	12
$\frac{7}{16}$	.651	7.81	12	$1\frac{1}{2}$	7.65	91.80	12
$\frac{1}{2}$	.850	10.20	12	$1\frac{3}{4}$	10.41	124.92	12
$\frac{9}{16}$	1.08	12.90	12	2	13.60	163.20	12
$\frac{5}{8}$	1.33	15.96	12				

DETROIT
Twi
Mail Box
13400

STAINLESS SQUARES**TYPE 416****ANNEALED COLD DRAWN****FREE MACHINING**

SAE 5146F: AMS-5610E: MIL-S-853-Class 6-Type C

Chemical Analysis, Page 286.

Identification Color: Lavender.

Size in Inches	Weight per Ft. lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet	Size in Inches	Weight per Ft. lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet
$\frac{3}{16}$	.120	1.128	12	$\frac{3}{4}$	1.91	22.92	12
$\frac{1}{4}$	.213	2.56	12	$\frac{7}{8}$	2.60	31.20	12
$\frac{5}{16}$	.332	3.98	12	1	3.40	40.80	12
$\frac{3}{8}$	.478	5.74	12	$1\frac{1}{8}$	4.30	51.60	12
$\frac{7}{16}$	.651	7.81	12	$1\frac{1}{4}$	5.31	63.72	12
$\frac{1}{2}$	.850	10.20	12	$1\frac{1}{2}$	7.65	91.80	12
$\frac{9}{16}$	1.08	12.90	12	$1\frac{3}{4}$	10.41	124.92	12
$\frac{5}{8}$	1.33	15.96	12	2	13.60	163.20	12

STAINLESS HEXAGONS**TYPE 303****ANNEALED COLD DRAWN****FREE MACHINING**

SAE 30303F: AMS-5640E: MIL-S-7720 Comp. 303S, Cond. A

Chemical Analysis, Page 285.

Identification Color: Yellow.

Size in Inches	Weight per Ft. lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet
$\frac{1}{8}$	.046	.552	12
$\frac{3}{16}$	.104	1.25	12
$\frac{1}{4}$	.184	2.21	12
$\frac{9}{32}$	.233	2.80	12
$\frac{5}{16}$	.288	3.46	12
$\frac{3}{8}$	.414	4.97	12
$\frac{7}{16}$	.564	6.77	12
$\frac{1}{2}$	.737	8.84	12
$\frac{9}{16}$	.932	11.18	12
$\frac{5}{8}$	1.150	13.80	12
$\frac{11}{16}$	1.393	16.72	12
$\frac{3}{4}$	1.658	19.90	12
$\frac{7}{8}$	2.256	27.07	12
$1\frac{5}{16}$	2.588	31.06	12
1	2.944	35.33	12
$1\frac{1}{16}$	3.324	39.89	12
$1\frac{1}{8}$	3.727	44.72	12
$1\frac{3}{16}$	4.152	49.82	12
$1\frac{1}{4}$	4.601	55.21	12
$1\frac{5}{16}$	5.072	60.86	12
$1\frac{3}{8}$	5.567	66.80	12
$1\frac{1}{16}$	6.085	73.02	12
$1\frac{1}{2}$	6.625	79.50	12
$1\frac{5}{8}$	7.775	93.30	12
$1\frac{3}{4}$	9.018	108.22	12
$1\frac{13}{16}$	9.673	116.08	12
$1\frac{7}{8}$	10.355	124.26	12
2	11.780	141.36	12
$2\frac{1}{4}$	14.907	178.88	12
$2\frac{3}{8}$	16.613	191.36	12
$2\frac{1}{2}$	18.403	220.84	12
$2\frac{3}{4}$	22.688	272.26	12
3	26.520	318.00	12

LUMINUM

BRASS COPPER

WEIGHTS
DATA



STAINLESS HEXAGONS

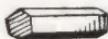


TYPE 316

ANNEALED COLD DRAWN

SAE 30303F, AMS-5640, MIL-S-7720 Comp. 303S Cond. A
 Chemical Analysis, Page 285.
 Identification Color—Green.

Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12 Ft. Bar	Random Length Feet	Size in Inches	Weight per Ft. Lbs.	Est. Wt. 12 Ft. Bar	Random Length Feet
3/8	.414	4.97	12	1	2.944	35.33	12
5/16	.564	6.77	12	1 1/16	3.324	39.89	12
1/2	.737	8.84	12	1 1/8	3.727	44.72	12
9/16	.932	11.18	12	1 1/4	4.601	55.21	12
5/8	1.150	13.80	12	1 5/16	5.072	60.86	12
3/4	1.658	19.90	12	1 1/2	6.625	79.50	12
13/16	1.940	23.28	12	1 5/8	7.775	93.30	12
7/8	2.256	27.07	12				



STAINLESS HEXAGONS



TYPE 416

ANNEALED COLD DRAWN

SAE 51416F, AMS-5610E, MIL-S-853-Class 6-Type C
 Chemical Analysis, Page 286.
 Identification Color: Lavender.

Size in Inches	Weight per Ft. lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet	Size in Inches	Weight per Ft. lbs.	Est. Wt. 12 Ft. Bar	Random Lengths Feet
3/16	.104	1.25	12	1 3/16	1.940	23.28	12
1/4	.184	2.21	12	7/8	2.256	27.07	12
9/32	.233	2.80	12	1	2.944	35.33	12
5/16	.288	3.46	12	1 1/16	3.324	39.89	12
3/8	.414	4.97	12	1 1/8	3.727	44.72	12
7/16	.564	6.77	12	1 1/4	4.601	55.21	12
1/2	.737	8.84	12	1 3/8	5.567	66.80	12
9/16	.932	11.18	12	1 1/2	6.625	79.50	12
5/8	1.150	13.80	12	1 5/8	7.775	93.30	12
11/16	1.393	16.72	12	1 3/4	9.018	108.22	12
3/4	1.658	19.90	12	2	11.78	141.36	12



STAINLESS ANGLES



TYPE 302-304-316

HOT ROLLED, ANNEALED, PICKLED

20 FOOT RANDOM LENGTHS

Chemical Analysis, Page 285.

Identification Colors: 302 Brown, 304 Red.

Size in Inches	Est. Wt. per Ft. lbs.	Est. Wt. 20 Ft. Bar		
		302	304	316
$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$	0.59	11.80		..
1 x 1 x $\frac{1}{8}$	0.80	16.00	16.00	
	$\frac{3}{16}$	1.16	23.20	23.20
1 $\frac{1}{4}$ x 1 $\frac{1}{4}$ x $\frac{1}{8}$	1.01	20.20		..
	$\frac{3}{16}$	1.48	29.60	..
1 $\frac{1}{2}$ x 1 $\frac{1}{2}$ x $\frac{1}{8}$	1.23	24.60	24.60	
	$\frac{3}{16}$	1.80	36.00	36.00
	$\frac{1}{4}$	2.34	46.80	..
2 x 2 x $\frac{1}{8}$	1.65	31.00		..
	$\frac{3}{16}$	2.44	48.80	48.80
	$\frac{1}{4}$	3.19	63.80	63.80
2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x $\frac{1}{4}$	4.10	82.00	82.00	
3 x 3 x $\frac{3}{16}$	3.11	62.20		..
	$\frac{1}{4}$	4.90	98.00	98.00
	$\frac{5}{16}$	6.10	122.00	..
	$\frac{3}{8}$	7.20	144.00	..



STAINLESS CHANNELS



TYPE 302-304

HOT ROLLED, ANNEALED, PICKLED

20 FOOT RANDOM LENGTHS

Chemical Analysis, Page 285.

Identification Color—302 Brown, 304 Red.

LUMINUM

BRASS

COPPER

WEIGHTS
DATA

Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 20 Ft. Bar	Size in Inches	Est. Wt. Per Ft. Pounds	Est. Wt. 20 Ft. Bar
$\frac{3}{4} \times \frac{3}{8} \times \frac{1}{8}$	.52	10.40	$1\frac{3}{4} \times 1\frac{1}{2} \times \frac{3}{16}$	1.55	31.00
1 x $\frac{3}{8} \times \frac{1}{8}$	.68	13.60	2 x $1\frac{1}{2} \times \frac{1}{8}$	1.34	26.80
1 x $\frac{1}{2} \times \frac{1}{8}$	.79	15.80	2 x $\frac{5}{8} \times \frac{1}{4}$	2.18	43.60
$1\frac{1}{4} \times 1\frac{1}{2} \times \frac{1}{8}$	.93	18.60	$2\frac{1}{2} \times \frac{5}{8} \times \frac{3}{16}$	2.27	45.40
$1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$	1.04	20.80			

STAINLESS FLATS

TYPES 302, 304, 316

HOT ROLLED, ANNEALED, PICKLED

12 FOOT RANDOM LENGTHS

Chemical Analysis, Page 285.

Identification Colors: 302 Brown, 304 Red.

Size in Inches	Weight per Ft. lbs.	Est. Weight 12' Bar	302	316	Size in Inches	Weight per Ft. lbs.	Est. Weight 12' Bar	302	316
5/8x 1/2	.213	2.50	X	..	5/8x3	3.83	45.96	X	..
5/8	.266	3.19	X	..	4	5.10	61.20	X	..
3/4	.319	3.83	X	X	5	6.38	76.56	X	..
1	.425	5.10	X	X	1/2x 3/4	1.28	15.36	X	..
1 1/4	.531	6.37	X	..	1	1.70	20.40	X	X
1 1/2	.638	7.66	X	X	1 1/4	2.13	25.56	X	..
2	.850	10.20	X	X	1 1/2	2.55	30.60	X	X
2 1/2	1.06	12.72	X	..	1 3/4	2.98	35.76	X	..
3	1.28	15.36	X	..	2	3.40	40.80	X	X
3/16x 1/2	.319	3.83	X	..	2 1/2	4.25	51.00	X	X
5/8	.398	4.78	X	..	3	5.10	61.20	X	X
3/4	.478	5.74	X	..	4	6.80	81.60	X	X
1	.638	7.66	X	X	6	10.20	122.40	X	..
1 1/4	.797	9.56	X	..	5/8x 3/4	1.59	21.08	X	..
1 1/2	.956	11.47	X	X	1	2.13	25.56	X	..
2	1.28	15.36	X	X	1 1/2	3.19	38.28	X	..
2 1/2	1.59	19.08	X	..	2	4.25	51.00	X	..
3	1.91	22.92	X	..	2 1/2	5.31	63.72	X	..
5/8x 1/2	.425	5.10	X	..	3	6.38	76.56	X	..
5/8	.531	6.37	X	..	4	8.50	102.00	X	..
3/4	.638	7.66	X	..	6	12.75	153.00	X	..
1	.850	10.20	X	X	5/8x1	2.55	30.60	X	..
1 1/4	1.06	12.72	X	X	1 1/2	3.83	45.96	X	..
1 1/2	1.28	15.36	X	X	2	5.10	61.20	X	X
1 3/4	1.49	17.88	X	..	2 1/2	6.38	76.56	X	..
2	1.70	20.40	X	X	3	7.65	91.80	X	X
2 1/2	2.13	25.56	X	X	4	10.20	122.40	X	..
3	2.55	30.60	X	X	5	12.75	153.00	X	..
4	3.40	40.80	X	..	6	15.30	183.60	X	..
6	5.10	61.20	X	..	x 1 1/2	5.10	61.20	X	..
5/8x 1/2	.638	7.66	X	..	1 3/4	5.95	71.40	X	..
3/4	.956	11.47	X	..	2	6.80	81.60	X	X
1	1.28	15.36	X	X	2 1/2	8.50	102.00	X	..
1 1/4	1.59	19.08	X	..	3	10.20	122.40	X	X
1 1/2	1.91	22.92	X	X	4	13.60	163.20	X	..
1 3/4	2.23	26.77	X	..	6	20.40	244.80	X	..
2	2.55	30.60	X	X					
2 1/2	3.19	38.28	X	X					

DETROIT
Twi
Mail Box
13400

**STAINLESS WIRE****TYPE 304****BRIGHT, SOFT TEMPER**

MIL-W-6713 COND. A.

Chemical Analysis, Page 285.

Identification Color: Black & Red.

Size in Inches	Weight Per 100 Ft. in Lbs.	Stock Carried	Size in Inches	Weight Per 100 Ft. in Lbs.	Stock Carried
.025	.1667	Coils	.050	.6668	Coils
.031	.2563	Coils	.062	1.0253	Coils

**STAINLESS WIRE****TYPE 304****BRIGHT, SPRING TEMPER**

MIL-W-6713 COND. B.

Chemical Analysis, Page 285.

Identification Color: Buff & White.

Size in Inches	Weight Per 100 Ft. in Lbs.	Stock Carried	Size in Inches	Weight Per 100 Ft. in Lbs.	Stock Carried
.025	.1667	Coils	.050	.6668	Coils
.031	.2563	Coils	.062	1.0253	Coils

**STAINLESS WIRE****COLD HEADING QUALITY****TYPE 430****COPPER COATED**

Chemical Analysis, Page 286.

Size in Inches	Approx. Feet Per Pound	Stock Carried	Size in Inches	Approx. Feet Per Pound	Stock Carried
.091	45	Coils	.165	14	Coils
.107	33	Coils	.184	11	Coils
.109	32	Coils	.212	8	Coils
.114	29	Coils	.221	7	Coils
.131	22	Coils	.270	5	Coils
.140	19	Coils	.278	5	Coils
.151	16	Coils	.306	4	Coils
.158	15	Coils	.368	3	Coils

LUMINUM

BRASS
COPPERWEIGHTS
DATA



**SEAMLESS
STAINLESS STEEL TUBING**
TYPE 304



COLD DRAWN, ANNEALED AND PICKLED

16-22 FT. RANDOM LENGTHS

SAE 30304: ASTM A269-56

Size O.D.	B.W. Ga.	Wall Dec. In.	Size I.D.	Wt. per Ft. lbs.	Size O.D.	B.W. Ga.	Wall Dec. In.	Size I.D.	Wt. per Ft. lbs.
1/4"	20	.035	.180	.0804	1 1/4"	11	.120	1.010	1.448
	18	.049	.152	.1052		3/16	.188	.875	2.132
	16	.065	.120	.1284		1/4	.250	.750	2.670
5/16"	20	.035	.242	.1039	1 1/2"	18	.049	1.402	.7593
	18	.049	.214	.1382		16	.065	1.370	.9962
	16	.065	.182	.1722		14	.083	1.334	1.256
3/8"	20	.035	.305	.1271	1 3/4"	11	.120	1.260	1.769
	18	.049	.277	.1706		3/16	.187	1.125	2.634
	16	.065	.245	.2152		1/4	.250	1.000	3.338
7/16"	20	.035	.367	.1506	2"	16	.065	1.620	1.170
1/2"	20	.035	.430	.1738		11	.120	1.510	2.089
	18	.049	.402	.2360		3/16	.187	1.375	3.136
	16	.065	.370	.3020		1 7/8"	13	.095	1.685
	13	.095	.310	.4109			18	.049	1.902
	11	.120	.260	.4870			16	.065	1.021
5/8"	22	.028	.569	.1785	2 1/4"	14	.083	1.870	1.343
	20	.035	.555	.2205		11	.120	1.834	1.699
	18	.049	.527	.3014		3/16	.188	1.760	2.409
	16	.065	.495	.3888		1/4	.250	1.625	3.638
	11	.120	.385	.6472		2 1/2"	13	.095	1.500
3/4"	20	.035	.680	.2673			18	.049	1.170
	18	.049	.652	.3668			16	.065	1.021
	16	.065	.620	.4755			14	.083	1.343
	13	.095	.560	.6646			11	.120	1.870
	11	.120	.510	.8074			3/16	.188	1.699
7/8"	18	.049	.777	.4323	2 3/4"	11	.120	2.260	3.050
	16	.065	.745	.5623		3/16	.188	2.125	
	11	.120	.635	.9676		1/4	.250	4.642	
1"	20	.035	.930	.3607	3"	16	.065	2.000	6.008
	19	.042	.916	.4297		11	.120	2.510	3.371
	18	.049	.902	.4977		3 1/4"	16	.065	2.870
	16	.065	.870	.6491			11	.120	2.037
	14	.083	.834	.8129			3/16	.187	3.691
	13	.095	.810	.9182			1/4	.250	5.646
	11	.120	.760	1.128			3 1/2"	16	2.500
	3/16	.188	.625	1.630				11	3.010
	1/4	.250	.500	2.003				11	4.011
1 1/8"	16	.065	.995	.7359	4"	11	.120	3.370	2.385
	18	.049	1.152	.6285		11	.120	3.510	
	16	.065	1.120	.8226		11	.120	4.656	
1 1/4"	14	.083	1.084	1.034	4"	11	.120	3.760	4.973
						11	.120	3.500	10.010

See pages 156 and 157 for Pipe Sizes.

DETROIT
Twin
Mail Box
13400



**WELDED
STAINLESS STEEL TUBING
TYPE 304**



COLD FINISHED—ANNEALED AND PICKLED

16-22 FT. RANDOM LENGTHS

SAE 30304: ASTM A269-56

Size O.D.	B.W. Ga.	Wall Dec. In.	Size I.D.	Wt. per Ft. lbs.	Size O.D.	B.W. Ga.	Wall Dec. In.	Size I.D.	Wt. per Ft. lbs.
$\frac{1}{8}''$	22	.028	.069	.0290	$1''$	16	.065	.870	.6491
$\frac{3}{16}''$	22	.028	.131	.0478		14	.083	.834	.8129
	20	.035	.117	.0572		11	.120	.760	1.128
$\frac{1}{4}''$	22	.028	.194	.0664	$1\frac{1}{4}''$	20	.035	1.180	.4542
	20	.035	.180	.0804		18	.049	1.152	.4542
	18	.049	.152	.1052		16	.065	1.120	.8226
	16	.065	.120	.1284		14	.083	1.084	1.034
$\frac{5}{16}''$	22	.028	.256	.0852		11	.120	1.010	1.448
	20	.035	.243	.1039	$1\frac{3}{8}''$	16	.065	1.245	.9094
	18	.049	.215	.1382	$1\frac{1}{2}''$	20	.035	1.430	.5476
	16	.065	.183	.1722		18	.049	1.402	.7593
$\frac{3}{8}''$	22	.028	.319	.1038		16	.065	1.370	.9962
	20	.035	.305	.1271		14	.083	1.334	1.256
	18	.049	.277	.1706		11	.120	1.260	1.769
	16	.065	.245	.2152	$1\frac{1}{4}''$	18	.049	1.652	.8902
$\frac{7}{16}''$	20	.035	.367	.1506		16	.065	1.620	1.170
	18	.049	.339	.2036		14	.083	1.584	1.478
	16	.065	.307	.2589		11	.120	1.510	2.089
$\frac{1}{2}''$	22	.028	.444	.1411	$2''$	20	.035	1.930	.7345
	20	.035	.430	.1738		18	.049	1.902	1.021
	18	.049	.402	.2360		16	.065	1.870	1.343
	16	.065	.370	.3020		14	.083	1.834	1.699
$\frac{5}{8}''$	22	.028	.569	.1785		11	.120	1.760	2.409
	20	.035	.555	.2205	$2\frac{1}{4}''$	16	.065	2.120	1.507
	18	.049	.527	.3014	$2\frac{1}{2}''$	18	.049	2.402	1.283
	16	.065	.495	.3888		16	.065	2.370	1.690
$\frac{3}{4}''$	20	.035	.680	.2673		14	.083	2.334	2.143
	18	.049	.652	.3668		11	.120	2.260	3.050
	16	.065	.620	.4755	$3''$	16	.065	2.870	2.037
	13	.095	.560	.6646		14	.083	2.834	2.586
	11	.120	.510	.8074		11	.120	2.760	3.691
$\frac{7}{8}''$	20	.035	.805	.3140	$3\frac{1}{4}''$	11	.120	3.010	4.011
	18	.049	.777	.4323	$3\frac{1}{2}''$	16	.065	3.370	2.385
	16	.065	.745	.5623		14	.083	3.334	3.029
	11	.120	.635	.9676	$4''$	16	.065	3.870	2.732
$1''$	20	.035	.930	.3607		14	.083	3.834	3.472
	18	.049	.902	.4977		11	.120	3.760	4.973

See pages 156 and 157 for Pipe Sizes.

ORNAMENTAL STAINLESS TUBING

Type 302 As Welded

Available in sizes $\frac{3}{4}''$ O.D. to $3''$ O.D.

LUMINUM

BRASS COPPER

WEIGHTS DATA

SEAMLESS STAINLESS PIPE
Type 304

Schedule 40—Standard I.P.S.
COLD DRAWN—ANNEALED AND PICKLED



17-24 Ft. Random Lengths



ASTM—A312—56T

Iron Pipe Size Inches	Diameter Inches		Wall Thickness Inches	Weight per Ft. Pounds
	O.D.	I.D.		
1/8	.405	.269	.068	.245
1/4	.540	.364	.088	.424
3/8	.675	.493	.091	.567
1/2	.840	.622	.109	.850
5/8	1.050	.824	.113	1.130
1	1.315	1.049	.133	1.680
1 1/4	1.660	1.380	.140	2.270
1 1/2	1.900	1.610	.145	2.720
2	2.375	2.067	.154	3.650
2 1/2	2.875	2.469	.203	5.790
3	3.500	3.068	.216	7.580
3 1/2	4.000	3.548	.226	9.109
4	4.500	4.026	.237	10.790
5	5.563	5.047	.258	14.620
6	6.625	6.065	.280	18.970

WELDED STAINLESS PIPE
Type 304

Schedule 40—Standard I.P.S.
COLD FINISHED—ANNEALED—PICKLED
17-24 Ft. Random Lengths

ASTM—A312—56T

Iron Pipe Size Inches	Diameter Inches		Wall Thickness Inches	Weight per Ft. Pounds
	O.D.	I.D.		
1/8	.405	.269	.068	.245
1/4	.540	.364	.088	.424
3/8	.675	.493	.091	.567
1/2	.840	.622	.109	.850
5/8	1.050	.824	.113	1.130
1	1.315	1.049	.133	1.680
1 1/4	1.660	1.380	.140	2.270
1 1/2	1.900	1.610	.145	2.720
2	2.375	2.067	.154	3.650

SEAMLESS EXTRA HEAVY STAINLESS PIPE
Type 304

Schedule 80—Extra Heavy I.P.S.
COLD DRAWN—ANNEALED—PICKLED
17-24 Ft. Random Lengths

ASTM—A312—56T

Ex. Hv. Pipe Size Inches	Diameter Inches		Wall Thickness Inches	Weight. per Ft. Pounds
	O.D.	I.D.		
1/8	.405	.215	.095	.315
1/4	.540	.302	.119	.535
3/8	.675	.423	.126	.738
1/2	.840	.546	.147	1.088
5/8	1.050	.742	.154	1.474
1	1.315	.957	.179	2.172
1 1/4	1.660	1.278	.191	2.997
1 1/2	1.900	1.500	.200	3.631
2	2.375	1.939	.218	5.022
2 1/2	2.875	2.323	.276	7.661
3	3.500	2.900	.300	10.250
3 1/2	4.000	3.364	.318	12.510
4	4.500	3.826	.337	14.980

DETROIT
Tw
Mail Box
13400

**SEAMLESS STAINLESS PIPE****Type 316**

Schedule 40—Standard I.P.S.

COLD DRAWN—ANNEALED AND PICKLED

17-24 Ft. Random Lengths

ASTM—A312—56T

Iron Pipe Size Inches	Diameter O.D.	Inches I.D.	Wall Thickness Inches	Wt. per Ft. lbs.
$\frac{1}{8}$	.405	.269	.068	.245
$\frac{1}{4}$	.540	.364	.088	.424
$\frac{3}{8}$	.675	.493	.091	.567
$\frac{1}{2}$	.840	.622	.109	.850
$\frac{3}{4}$	1.050	.823	.113	1.130
1	1.315	1.049	.133	1.680
$1\frac{1}{4}$	1.660	1.380	.140	2.270
$1\frac{1}{2}$	1.900	1.610	.145	2.720
2	2.375	2.067	.154	3.658
$2\frac{1}{2}$	2.875	2.469	.203	5.790
3	3.500	3.068	.216	7.580
$3\frac{1}{2}$	4.000	3.548	.226	9.109
4	4.500	4.026	.237	10.790
6	6.625	6.065	.280	18.970

**WELDED STAINLESS PIPE****Type 316**

Schedule 40—Standard I.P.S.

COLD FINISHED—ANNEALED—PICKLED

17-24 Ft. Random Lengths

ASTM—A312—56T

Iron Pipe Size Inches	Diameter O.D.	Inches I.D.	Wall Thickness Inches	Wt. per Ft. lbs.
$\frac{1}{8}$	.405	.269	.068	.245
$\frac{1}{4}$	.540	.364	.088	.424
$\frac{3}{8}$	.675	.493	.091	.567
$\frac{1}{2}$	.840	.622	.109	.850
$\frac{3}{4}$	1.050	.824	.113	1.130
1	1.315	1.049	.133	1.680
$1\frac{1}{4}$	1.660	1.380	.140	2.270
$1\frac{1}{2}$	1.900	1.610	.145	2.720
2	2.375	2.067	.154	3.650

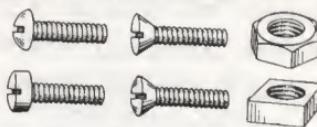
For Stainless Steel Pipe and Tubing in sizes and alloys not listed, prompt shipment can be made from mill.

LUMINUM

BRASS
COPPERWEIGHTS
DATA

STAINLESS FASTENERS

Stainless Fasteners in the following listings are available in a full range of sizes for prompt shipment. Many additional types and sizes are regularly available from factory stocks.



1.—Machine Screws Type 304, in round, flat, counter sunk, oval counter sunk and fillister head in lengths from $\frac{1}{8}$ " to 2" in 56 to 13 threads/inch up to $\frac{3}{8}$ diameter. Machine Screw Nuts Type 303, to $\frac{3}{8}$ dia. to 16 thread.



2.—Wood Screws Type 304, in round, oval and flat head from #5 to 18 diameter to 3" in length.



3.—18-8 Set Screws, in square, square slotted, socket and cup point from $\frac{1}{4}$ to $\frac{3}{8}$ diameter to $\frac{3}{4}$ length.



4.—Hexagon head Bolts and Cap Screws Types 304 & 316, to $\frac{3}{4}$ diameter to 6" lengths standard threads. Hexagon Nuts type 302 and type 316 both coarse and fine thread to $\frac{3}{4}$ diameter.



5.—Rivets Type 304, round, flat and counter sunk heads to $\frac{1}{4}$ diameter to $1\frac{1}{4}$ length.



6.—Tinners Rivets Type 304, cold headed annealed to $\frac{1}{4}$ inch, lengths to 15/32.



7.—Washers Type 304, in bolt size $\frac{3}{16}$ to 1" in both flat and lock washers.



8.—18-8 Lag Screws from $\frac{1}{4} \times 2$ to $\frac{3}{8} \times 4$



9.—18-8 Escutcheon Pins from #14— $1\frac{1}{2}$ " to 16— $3\frac{1}{4}$ "



10.—18-8 Cotter Pins, from $\frac{1}{16} \times \frac{1}{2}$ to $\frac{1}{8} \times 2$



11.—18-8 Sheet Metal Screws, from #4— $\frac{1}{4}$ " to 14— $5\frac{1}{8}$ "



12.—18-8 Wing Nuts, from 10-24 to $1\frac{1}{2}$ —13



13.—18-8 Nails, from 2d—1" to 60 d—6"

ALCOA
ALUMINUM SHEET

1100-0

FORMERLY—250 SOFT

MILL FINISH

.050 and Heavier Interleaved

QQ-A-561b AMS-4001B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.012x24x 72	.169	2.14	.050x36x 96	.706	16.93
.016x24x 72	.226	2.71	48x144	.706	33.87
.020x24x 72	.282	3.39	.063x24x 72	.889	10.69
.025x24x 72	.353	4.23	36x 96	.889	21.34
.032x24x 72	.452	5.42	48x144	.889	42.67
36x 96	.452	10.84	.080x36x 96	1.129	27.09
.040x24x 72	.565	6.77	.090x36x 96	1.270	30.48
36x 96	.565	13.55	.100x36x 96	1.411	33.87
48x144	.565	27.09	.125x36x 96	1.764	42.34
.050x24x 72	.706	8.47			

ALCOA
ALUMINUM SHEET

1100-H14

FORMERLY 2S-H14 1/2 HARD

MILL FINISH

QQ-A-561b AMS-4003B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.012x24x 72	.169	2.14	.050x36x 96	.706	16.94
.016x24x 72	.226	2.71	36x120	.706	21.18
36x 96	.226	5.42	48x144	.706	33.87
.020x24x 72	.282	3.39	.063x24x 72	.889	10.69
36x 96	.282	6.77	36x 96	.889	21.34
36x120	.282	8.48	36x120	.889	26.75
.025x24x 72	.353	4.23	48x144	.889	42.67
36x 96	.353	8.47	.080x36x 96	1.129	27.09
36x120	.353	10.58	48x144	1.129	54.19
.032x24x 72	.452	5.42	.090x36x 96	1.270	30.48
36x 96	.452	10.84	48x144	1.270	60.96
36x120	.452	13.55	.100x36x 96	1.411	33.87
48x144	.452	21.67	" 48x144	1.411	67.74
.040x24x 72	.565	6.77	.125x36x 96	1.764	42.34
36x 96	.565	13.55	48x120	1.764	70.56
36x120	.565	16.93	48x144	1.764	84.67
48x144	.565	27.09	*.190x36x 96	2.681	64.35
.050x24x 72	.706	8.47	* 48x144	2.681	128.70

*1100-H24—Formerly 2S-1/2 Hard.

G

ALUMINUM

BRASS
COPPER

WEIGHTS
DATA

ALCOA

ALUMINUM COILED SHEET**1100-0**Formerly 2S-O Soft
Mill Finish—500# Coils

6" ID .039 & Lighter

12" ID .040 & Heavier

QQ-A-561b AMS-4001B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Lbs.	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Lbs.
.006 x 12	.085	.085	.032 x 12	.452	.452
.008 x 12	.113	.113	14	.452	.527
.010 x 12	.141	.141	16	.452	.602
.012 x 12	.169	.169	.032 x 18	.452	.678
18	.169	.254	20	.452	.753
.016 x 12	.226	.226	24	.452	.904
18	.226	.339	.040 x 12	.565	.565
.020 x 12	.282	.282	16	.565	.752
18	.282	.423	18	.565	.848
24	.282	.564	24	.565	1.130
.025 x 12	.353	.353	.050 x 18	.706	1.059
18	.353	.530	24	.706	1.412
24	.353	.706	.063 x 16	.889	1.182
			24	.889	1.778

ALCOA

ALUMINUM SHEET**1100-H25**Standard One Side Bright Finish
Interleaved

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Size In Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. Per Sheet in Lbs.	Thickness Inches	Size In Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. Per Sheet in Lbs.
.016x24x72	.226	2.71		.032x24x72	.452	5.42	
28x72	.226	3.16		28x72	.452	6.33	
36x96	.226	5.42		36x96	.452	10.85	
.020x24x72	.282	3.39		.040x24x72	.565	6.78	
28x72	.282	3.95		28x72	.565	7.91	
36x96	.282	6.77		36x96	.565	13.55	
.025x24x72	.353	4.23		.050x24x72	.706	8.47	
28x72	.353	4.94		28x72	.706	9.88	
36x96	.353	8.47		36x96	.706	16.94	
				.063x36x96	.889	21.34	

TROI
Twin
Mail Box
13400 N

ALCOA


**ALUMINUM COILED SHEET
3003-0**


Mill Finish—500 pound coils

6" I.D.—.032 & Lighter

12" I.D.—.040 & Heavier

QQ-A-359c AMS-4006B

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Width Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds	Thickness Inches	Width Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds
.010 x 12		.143	.143	.032 x 24		.456	.912
.012 x 12		.171	.171	.040 x 24		.570	1.140
.016 x 18		.228	.342	.050 x 24		.713	1.426
.020 x 24		.285	.570	.063 x 24		.898	1.796
.025 x 24		.356	.712				

ALCOA


ALUMINUM SHEET
**3003-0**

FORMERLY 3S-O SOFT

MILL FINISH

.050 and Heavier Interleaved

QQ-A-359c AMS-4006B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.025x24x 72	.356	4.28	.063x36x 96	.898	21.55
36x 96	.356	8.55	48x144	.898	43.11
.032x36x 96	.456	10.95	.080x36x 96	1.141	27.37
.040x36x 96	.570	13.68	48x144	1.141	54.74
48x144	.570	27.37	.090x36x 96	1.283	30.79
.050x36x 96	.713	17.11	48x144	1.283	61.59
48x144	.713	34.21	.125x36x 96	1.782	42.76
			48x144	1.782	85.54

BRASS
COPPERWEIGHTS
DATA

ALCOA
ALUMINUM SHEET
3003-H14

FORMERLY 3S-H14 1/2 HARD

MILL FINISH

QQ-A-359c AMS-4008B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.016x24x 72	.228	2.74	.063x36x 96	.898	21.55
.020x24x 72	.285	3.42	36x120	.898	26.94
36x 96	.285	6.84	48x 96	.898	28.74
36x120	.285	8.55	48x120	.898	35.92
.025x36x 96	.356	8.55	48x144	.898	43.11
36x120	.356	10.69	60x144	.898	53.89
48x 96	.356	11.39	.080x36x 96	1.141	27.37
48x120	.356	14.24	48x120	1.141	45.62
.032x36x 96	.456	10.95	48x144	1.141	54.74
36x120	.456	13.69	60x144	1.141	68.46
48x 96	.456	14.60	.090x36x 96	1.283	30.79
48x120	.456	18.25	48x144	1.283	61.59
48x144	.456	21.90	60x144	1.283	76.98
.040x36x 96	.570	13.68	.100x36x 96	1.426	34.21
36x120	.570	17.11	48x144	1.426	68.43
48x 96	.570	18.24	60x144	1.426	85.56
48x120	.570	22.81	.125x36x 96	1.782	42.76
48x144	.570	27.37	36x120	1.782	53.46
60x144	.570	34.21	48x120	1.782	71.28
.050x36x 96	.713	17.11	48x144	1.782	85.54
36x120	.713	21.28	60x144	1.782	106.92
48x 96	.713	22.81	* .190x36x 96	2.709	65.00
48x120	.713	28.51	* 48x120	2.709	108.34
48x144	.713	34.21	* 48x144	2.709	130.00
.050x60x144	.713	42.77	60x144	2.709	162.54

*3003-H24—Formerly 3S-1/2 Hard.

ALCOA
ALUMINUM SHEET

3003-H25

FORMERLY 3S-H25

ONE SIDE BRIGHT—MILL FINISH

Interleaved

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.020x36x 96	.285	6.84	.050x36x 96	.713	17.11
.025x36x 96	.356	8.55	48x144	.713	34.21
.032x36x 96	.456	10.95	.063x36x 96	.898	21.55
.040x36x 96	.570	13.68	48x144	.898	43.11
48x144	.570	27.37			

DETROIT
Twin
Mail Box
13400 N

ALCOA
ALUMINUM COILED SHEET
3003-H14

Formerly 3S-H14 1/2 Hard
 Mill Finish 1000 lb.—20" ID Coils
 QQ-A-359c AMS-4008B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Lbs.	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Lbs.
.010 x 12	.143	.143	.032 x 48	.456	1.824
.012 x 12	.171	.171	.040 x 12	.570	.570
.016 x 18	.228	.342	24	.570	1.140
36	.228	.684	36	.570	1.710
.020 x 24	.285	.570	48	.570	2.280
36	.285	.855	.050 x 24	.713	1.426
.025 x 24	.356	.712	36	.713	2.139
36	.356	1.068	.063 x 24	.898	1.796
48	.356	1.424	36	.898	2.694
.032 x 24	.456	.912	48	.898	3.592
36	.456	1.368	.080 x 24	1.140	2.280

ALCOA
ALUMINUM ALUMILITE

FLAT SHEET
No. 32 TEMPER-H14

FORMERLY 2S No. X 4

MILL FINISH

Interleaved

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.
.032x36x 96	.452	10.84	.050x36x 96	.706	16.94
36x120	.452	13.55	36x120	.706	21.18
48x 96	.452	14.46	48x 96	.706	22.59
48x120	.452	18.08	48x144	.706	33.89
48x144	.452	21.70			
.040x36x 96	.565	13.56	.063x36x120	.889	26.67
36x120	.565	16.95	48x144	.889	42.67
48x 96	.565	18.08	*.125x36x120	1.764	52.92
48x120	.565	22.60	* 48x144	1.764	84.67
48x144	.565	27.12			

*Temper H-24

ALCOA
ALUMINUM LIGHTING SHEETS

Specular Finish

ALZAC Processed
Interleaved

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds
.020x24x72	.289	3.46	.032x24x72	.461	5.53
.025x24x72	.360	4.32			

G

BRASS
COPPER

WEIGHTS
DATA



ALCOA
ALUMINUM COILED SHEET
5052-H32



Mill Finish—1000 lb. 20" I.D. Coils

QQ-A-318b-1 AMS-4016C

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Width Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds	Thickness Inches	Width Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds
.032 x 36		.447	1.341	.050 x 36		.698	2.094
.040 x 36		.559	1.677	.063 x 36		.880	2.640



ALCOA
ALUMINUM COILED SHEET
5050-H34



Mill Finish—1000 lb. 20" I.D. Coils

QQ-A-318b-1 AMS-4017C

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Width Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds	Thickness Inches	Width Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds
.032 x 36		.447	1.341	.050 x 36		.698	2.094
.040 x 36		.559	1.677	.063 x 36		.880	2.640



ALCOA
ALUMINUM COILED SHEET
5357-H32



Mill Finish—1000 lb. 20" I. D. Coils

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Width Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds	Thickness Inches	Width Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds
.025 x 24		.353	.706	.040 x 24		.565	1.130
.032 x 24		.452	.904	.050 x 24		.706	1.412
.036 x 24		.508	1.016				

DETROIT
Twins
Mail Box
13400 N

ALCOA

UTILITY ALUMINUM SHEET

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds
.020x30x 96	.285	5.70	.032x36x120	.456	13.69
36x 96	.285	6.84	48x120	.456	18.25
36x120	.285	8.55	48x144	.456	21.90
.025x30x 96	.356	7.12	.040x36x 96	.570	13.68
36x 96	.356	8.55	36x120	.570	17.11
36x120	.356	10.69	48x120	.570	22.81
48x120	.356	14.24	.050x36x 96	.713	17.11
.032x36x 96	.456	10.95	48x120	.713	28.51

ALCOA

UTILITY ALUMINUM COILS

1000 lb. 20" I.D. Coils

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Ft. in Pounds
.020 x 36	.285	.86	.032 x 36	.456	1.36
.025 x 36	.356	1.07	48	.456	1.82
48	.356	1.42	.040 x 48	.570	2.28

ALCOA

ALUMINUM SHEET**BARE 2024-0**

FORMERLY BARE 24S-0 SOFT

MILL FINISH

OILED AND IDENTIFIED

QQ-A-355b-1 AMS-4035D

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.025x48x144	.360	17.28	.080x48x144	1.152	55.22
.032x48x144	.461	22.12	.090x48x144	1.296	62.21
.040x48x144	.576	27.65	.100x48x144	1.440	69.12
.050x48x144	.720	34.56	.125x48x144	1.800	86.40
.063x48x144	.907	43.55	.160x48x144	2.300	110.59
.071x48x144	1.022	49.08	.190x48x144	2.736	131.33

BRASS

COPPER

WEIGHTS
DATA

ALCOA
ALUMINUM SHEET
ALCLAD 2024-0

FORMERLY ALCLAD 24S-0 SOFT

MILL FINISH

INTERLEAVED AND IDENTIFIED

QQ-A-362a-1 AMS-4040D

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.016x36x144	.230	8.29	.071x48x144	1.022	49.08
.020x36x144	.288	10.37	.080x48x144	1.152	55.22
.025x48x144	.360	17.28	.090x48x144	1.296	62.21
.032x48x144	.461	22.12	.100x48x144	1.440	69.12
.040x48x144	.576	27.65	.125x48x144	1.800	86.40
.051x48x144	.720	34.56	.160x48x144	2.300	110.59
.063x48x144	.907	43.55	.190x48x144	2.736	131.33

ALCOA
ALUMINUM SHEET
BARE 2024-T3

FORMERLY BARE 24S-T3

MILL FINISH

OILED AND IDENTIFIED

QQ-A-355b-1 AMS-4037D

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.020x36x144	.288	10.37	.080x48x144	1.152	55.22
.025x48x144	.360	17.28	.090x48x144	1.296	62.21
.032x48x144	.461	22.12	.100x48x144	1.440	69.12
.040x48x144	.576	27.65	.125x48x144	1.800	86.40
.050x48x144	.720	34.56	.160x48x144	2.300	110.59
.063x48x144	.907	43.55	.190x48x144	2.736	131.33
.071x48x144	1.022	49.08			

DETROIT
Twin
Mail Box
13400 N

ALCOA
ALUMINUM SHEET
ALCLAD 2024-T3

FORMERLY ALCLAD 24S-T

MILL FINISH

INTERLEAVED AND IDENTIFIED

QQ-A-362a-1 AMS-4041D

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.016x36x144	.230	8.29	.050x48x144	.720	34.56
.020x36x144	.288	10.37	.063x48x144	.907	43.55
.025x48x144	.360	17.28	.071x48x144	1.022	49.08
.032x48x144	.461	22.12	.080x48x144	1.152	55.22
.040x48x 96	.576	18.43	.090x48x144	1.296	62.21
48x120	.576	23.04	.100x48x144	1.440	69.12
48x144	.576	27.65	.125x48x144	1.800	86.40
.050x48x 96	.720	23.04	.160x48x144	2.300	110.59
48x120	.720	28.80	.190x48x144	2.736	131.33

ALCOA
ALUMINUM SHEET

5005-H34

MILL FINISH

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds	Thickness Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds
.032x48x120	.452	18.08		.063x48x120	.889	35.56	
.040x48x120	.565	22.60		.080x48x120	1.129	45.16	
.050x48x120	.706	28.24					

ALCOA
ALUMINUM SHEET

5050-H34

MILL FINISH

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds	Thickness Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds
.032x36x 96	.447	10.73		.050x36x 96	.698	16.75	
48x144	.447	21.46		48x144	.698	33.50	
.040x36x 96	.559	13.42		.063x36x 96	.880	21.12	
48x144	.559	26.83		48x144	.880	42.24	

BRASS
COPPER

WEIGHTS
DATA

ALCOA
ALUMINUM SHEET
5052-0

FORMERLY 52S-0 SOFT

MILL FINISH

IDENTIFIED

.050 and Heavier Interleaved

QQ-A-318b-1 AMS-4015C

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.020x36x 96	.280	6.70	.050x48x144	.698	33.52
.025x36x 96	.349	8.38	.063x36x 96	.880	21.12
.032x36x 96	.447	10.73	48x144	.880	42.24
48x144	.447	21.45	.080x48x144	1.117	53.64
.040x36x 96	.559	13.41	.090x48x144	1.257	60.34
48x144	.559	26.82	.125x48x144	1.746	83.81
.050x36x 96	.698	16.76	.160x48x144	2.235	107.28
			.190x48x144	2.654	127.39

ALCOA
ALUMINUM SHEET
5052-H32

FORMERLY 52S-H32 1/4 HARD

MILL FINISH

IDENTIFIED

QQ-A-318b-1 AMS-4016C

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.020x36x 96	.280	6.70	.063x36x 96	.880	21.12
36x144	.280	10.06	48x 96	.880	28.16
.025x36x 96	.349	8.38	48x144	.880	42.24
36x144	.349	12.57	60x144	.880	52.80
.032x36x 96	.447	10.73	.080x36x 96	1.117	26.82
48x 96	.447	14.30	48x 96	1.117	36.76
48x144	.447	21.45	48x144	1.117	53.64
.040x36x 96	.559	13.41	.090x36x 96	1.257	30.17
36x144	.559	20.27	48x 96	1.257	40.23
48x 96	.559	17.88	48x144	1.257	60.34
48x144	.559	26.82	.100x48x144	1.397	67.06
60x144	.559	33.54	.125x36x 96	1.746	41.90
.050x36x 96	.698	16.76	48x144	1.746	83.81
48x 96	.698	22.35	.160x48x144	2.235	107.28
48x144	.698	33.52	*.190x36x 96	2.654	63.69
60x144	.698	41.88	* 48x144	2.654	127.39

*5052-H22-Formerly 52S-1/4 Hard.

TROT
Twin
ail Box 1
13400 N

ALCOA

ALUMINUM SHEET

5052-H34

FORMERLY 52S-H34 1/2 HARD

MILL FINISH

IDENTIFIED

QQ-A-318b-1 AMS-4017C

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.020x36x 96	.280	6.70	.050x36x 96	.698	16.76
.025x36x 96	.349	8.38	36x120	.698	20.95
.032x36x 96	.447	10.73	36x144	.698	25.14
48x 96	.447	14.30	48x 96	.698	22.35
48x120	.447	17.88	48x120	.698	27.93
48x144	.447	21.45	48x144	.698	33.52
.040x36x 96	.559	13.41	.063x36x 96	.880	21.12
36x120	.559	16.89	36x120	.880	26.40
48x 96	.559	17.88	48x120	.880	35.20
48x120	.559	22.52	48x144	.880	42.24
48x144	.559	26.82	.080x48x144	1.117	53.64
			.090x48x144	1.257	60.34
			.125x48x144	1.746	83.81
			.190x48x144	2.654	127.39

ALCOA

ALUMINUM SHEET

5357-0

MILL FINISH

.050 Interleaved

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds	Thickness Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds
.025x36x120	.353	10.59		.040x36x120	.565	16.95	
.032x36x120	.452	13.56		.050x36x120	.706	21.18	
.036x36x120	.508	15.24					

BRASS
COPPERWEIGHTS
DATAAL
pic
re
E
IAL
04
05
06
07
08
09
10
11
12
13
14
16
18
20
22
24
26
29
31
33
35
37
39
41
43
45
47
49
51
55
59
63
67
71
75
80
85
90
95
00
06
12
18
24
SIC
WIRE
ING
VIRE

ALCOA


ALUMINUM SHEET
5357-H32

MILL FINISH

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds	Thickness Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds
.025x36x120	.353	10.58		.040x36x120	.565	16.93	
.032x36x120	.452	13.55		.050x36x120	.706	21.18	
.036x36x120	.508	15.24					

ALCOA


ALUMINUM SHEET

6061-0

FORMERLY 61S-0 SOFT

MILL FINISHInterleaved and Identified
QQ-A-327a-3 AMS-4025B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.025x36x144	.353	12.70	.071x48x144	1.002	48.10
.032x48x144	.452	21.67	.080x48x144	1.129	54.19
.040x48x144	.565	27.09	.090x48x144	1.270	60.96
.050x48x144	.706	33.87	.100x48x144	1.411	67.73
.063x48x144	.889	42.67	.125x48x144	1.764	84.67
			.190x48x144	2.681	128.70

ALCOA


ALUMINUM SHEET

6061-T4

FORMERLY 61S-T

MILL FINISHINTERLEAVED AND IDENTIFIED
QQ-A-327a-3 AMS-4026B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.
.025x36x144	.353	12.70	.050x48x144	.706	33.87
.032x48x144	.452	21.67	.063x48x144	.889	42.67
.040x48x144	.565	27.08			

DETROIT

Twi
Mail Box
13400

ALCOA
ALUMINUM SHEET
6061-T6

FORMERLY 61S-T6
MILL FINISH
INTERLEAVED AND IDENTIFIED

QQ-A-327a-3 AMS-4027B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.025x36x144	.353	12.70	.090x48x144	1.270	60.96
.032x36x 96	.452	10.84	60x144	1.270	76.20
48x144	.452	21.67	.100x48x144	1.411	67.74
.040x36x 96	.565	13.55	60x144	1.411	84.66
48x144	.565	27.09	.125x36x144	1.764	63.50
.050x36x 96	.706	16.93	48x144	1.764	84.67
48x144	.706	33.87	60x144	1.764	105.84
60x144	.706	42.36	.160x48x144	2.258	108.38
.063x36x 96	.889	21.34	60x144	2.258	135.48
48x144	.889	42.67	.190x48x144	2.681	128.70
60x144	.889	53.34	60x144	2.681	160.68
.080x48x144	1.129	54.19	72x144	2.681	193.05
60x144	1.129	67.92			

ALCOA
ALUMINUM SHEET
ALCLAD 7075-0

FORMERLY ALCLAD 75S-0 SOFT
MILL FINISH

INTERLEAVED AND IDENTIFIED

QQ-A-287-1 AMS-4048B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.025x36x144	.364	13.09	.080x48x144	1.164	55.77
48x144	.364	17.47	.090x48x144	1.309	62.83
.032x48x144	.465	22.34	.100x48x144	1.454	69.81
.040x48x144	.582	27.93	.125x48x144	1.818	87.26
.050x48x144	.727	34.90	.160x48x144	2.327	111.69
.063x48x144	.916	43.99	.190x48x144	2.763	132.61
.071x48x144	1.033	49.57			

BRASS
COPPER

WEIGHTS
DATA

ALCOA


**ALUMINUM SHEET
ALCLAD 7075-T6**


FORMERLY ALCLAD 75S-T6

MILL FINISH

INTERLEAVED AND IDENTIFIED

QQ-A-287-1 AMS-4049B

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Sheet in Pounds
.020x36x144	.291	10.47	.071x48x144	1.033	49.57
.025x36x144	.364	13.09	.080x48x144	1.164	55.77
48x144	.364	17.47	.090x48x144	1.309	62.83
.032x48x144	.465	22.34	.100x48x144	1.454	69.81
.040x48x144	.582	27.93	.125x48x144	1.818	87.26
.050x48x144	.727	34.90	.160x48x144	2.327	111.69
.063x48x144	.916	43.99	.190x48x144	2.763	132.64

ALCOA

ALUMINUM PATTERN SHEET**3003-H114**

FORMERLY 3S-H114

MILL FINISH

PATTERN NO. E5—STUCCO



Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.
.020x36x 96	.286	6.9	.032x36x120	.455	13.7
.025x36x 96	.361	8.7	48x144	.455	21.9
48x144	.361	17.3	.040x36x 96	.574	13.8
.032x36x 96	.455	10.9	36x120	.574	17.3
			48x144	.574	27.6

ALCOA

ALUMINUM PATTERN SHEET**3003-H114**

Formerly 3S-H114

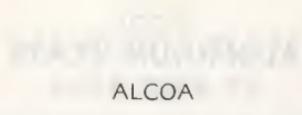
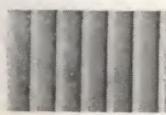
MILL FINISH



PATTERN NO. E-15—LEATHER GRAIN

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds	Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Pounds
.032x36x120	.455	13.7		.040x48x120	.574	23.0	
48x144	.455	21.9		48x144	.574	27.6	

Twin
Mail Box 14
13400 MI



ALCOA

ALUMINUM PATTERN SHEET 3003-H114

FORMERLY 3S-H114
MILL FINISH

PATTERN NO. 10—FLUTED

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.
.040x48x144	.574	27.6	.050x48x144	.723	34.8
.050x48x120	.723	28.9	.063x48x144	.912	43.9



ALCOA



ALUMINUM PATTERN SHEET 3003-H114

FORMERLY 3S-H114
MILL FINISH

PATTERN NO. E13—DIAMOND

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.
.020x36x 96	.286	6.9	.032x48x144	.455	21.9
.025x36x 96	.361	8.66	.040x36x 96	.574	13.78
48x144	.361	17.3	48x144	.574	27.6



ALCOA



ALUMINUM PATTERN SHEET 3003-H114

FORMERLY 3S-H114
MILL FINISH*

PATTERN NO. E14—SQUARE

Physical Properties and Chemical Analysis, Pages 296-300.

Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Sheet in Lbs.
.032x36x120	.455	13.7	.040x36x120	.574	17.3
48x144	.455	21.9	48x120	.574	27.6

G

BRASS
COPPERWEIGHTS
DATA



**ALCOA
ALUMINUM PLATE
1100-F**



FORMERLY 2S-F AS ROLLED

MILL FINISH

QQ-A-561b

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Plate	Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Plate
$\frac{1}{4}$	.250 x36x 96	3.53	84.67	$\frac{1}{2}$	.500x36x96	7.06	169.44
	48x144	3.53	169.34	$\frac{3}{4}$	.750x36x96	10.58	253.92
	60x144	3.53	211.80	1	1.00x36x96	14.11	338.64
$\frac{5}{16}$	.3125x36x 96	4.42	106.08				
$\frac{3}{8}$	.375 x36x 96	5.29	126.96				



**ALCOA
ALUMINUM PLATE
3003-F**



FORMERLY 3S-F AS ROLLED

MILL FINISH

QQ-A-359c

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Plate	Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Plate
$\frac{1}{4}$	.250x36x96	3.56	85.44	$\frac{1}{4}$	.250x48x144	3.56	170.88



**ALCOA
ALUMINUM PLATE
BARE 2024-0**



FORMERLY BARE 24S-0 SOFT

MILL FINISH

Oiled and Identified

QQ-A-355b-1 AMS-4035D

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Plate in Pounds
$\frac{1}{4}$	.250 x 48 x 144	3.60	172.80



**ALCOA
ALUMINUM PLATE
ALCLAD 2024-0**



FORMERLY ALCLAD 24S-0 SOFT

MILL FINISH

Interleaved and Identified

QQ-A-362a-2 AMS-4040D

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight Per Plate in Pounds
$\frac{1}{4}$	.250 x 48 x 144	3.60	172.80

TROY
Twin
Mail Box 1
13400 M

ALCOA


ALUMINUM PLATE
BARE 2024-T4


FORMERLY BARE 24S-T4

MILL FINISH

1 1/4" and Heavier—Sawed 1" and Lighter—Sheared
 OILED AND IDENTIFIED
 QQ-A-355b-1

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Plate in Pounds	Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Plate in Pounds
1/4	.250x24x72	3.60	43.20	5/8	.875x24x72	12.60	151.20
	36x 96	3.60	86.40		36x96	12.60	302.40
	48x144	3.60	172.80	1	1.00x24x72	14.40	172.80
5/16	.3125x24x72	4.51	54.09		36x96	14.40	345.60
	36x 96	4.51	108.17	3/8	.375x24x72	18.00	216.00
	48x144	5.40	64.80		36x96	18.00	432.00
1/2	.500x24x72	7.20	86.40	1 1/2	1.25x24x72	21.60	259.20
	36x 96	7.20	172.80		36x96	21.60	518.40
5/8	.625x24x72	9.00	108.00	1 3/4	1.75x24x72	25.20	302.40
	36x 96	9.00	216.00		36x96	25.20	604.80
3/4	.750x24x72	10.80	129.60	2	2.00x24x72	28.80	345.60
	36x 96	10.80	259.20		36x96	28.80	691.20

ALCOA


ALUMINUM PLATE
ALCLAD 2024-T4


FORMERLY ALCLAD 24S-T4

MILL FINISH

Interleaved and Identified

QQ-A-362a-1

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Plate in Pounds
1/4	.250 x 48 x 144	3.60	172.80

ALCOA


ALUMINUM PLATE

6061-T6

FORMERLY 61S-T6

MILL FINISH

1 1/4" and Heavier—Sawed 1" and Lighter—Sheared
 INTERLEAVED AND IDENTIFIED
 QQ-A-327a-3 AMS-4027B

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Plate in Pounds	Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. per Plate in Pounds
1/4	.250x36x 96	3.53	84.67	5/8	.625x36x 96	8.82	211.68
	48x144	3.53	169.34		48x144	8.82	423.36
	60x144	3.53	211.68	3/4	.750x36x 96	10.58	254.02
	72x144	3.53	254.08		48x144	10.58	508.03
5/16	.312x36x 96	4.42	106.01	7/8	.875x48x144	12.35	592.70
	48x144	4.42	212.02	1	1.000x36x 96	14.11	338.69
	48x144	5.29	127.00		48x144	14.11	677.38
3/8	.375x36x 96	5.29	254.01	1 1/4	1.250x36x 96	17.64	423.36
	48x144	5.29	254.01	1 1/2	1.500x36x 96	21.17	508.04
1/2	.500x36x 96	7.06	169.34	1 3/4	1.750x36x 96	24.70	592.70
	48x144	7.06	338.69	2	2.000x36x 96	28.22	677.38
					48x144	28.22	1354.75

BRASS COPPER

WEIGHTS DATA



**ALCOA
ALUMINUM PLATE
5052-F**



FORMERLY 52S-F AS ROLLED
MILL FINISH—IDENTIFIED

QQ-A-318b-1

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Plate in Pounds
1/4	.250 x 48 x 144	3.49	167.52



**ALCOA
ALUMINUM PLATE
6061-0**



FORMERLY 61S-0 SOFT
INTERLEAVED AND IDENTIFIED
MILL FINISH

QQ-A-327a-3 AMS-4025B

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. Per Sq. Ft.	Approx. Weight per Plate in Pounds
1/4	.250 x 48 x 144	3.53	169.44



**ALCOA
ALUMINUM PLATE**



BARE 7075-T6

FORMERLY BARE 75S-T6
MILL FINISH

1 1/4" and Heavier—Sawed 1" and Lighter—Sheared
OILED AND IDENTIFIED
QQ-A-283-1 AMS-4045A

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness in Inches	Size in Inches	Approx. Wt. per Plate Sq. Ft.	Thickness in Inches	Size in Inches	Approx. Wt. per Plate Sq. Ft.
1/4	.250x48x144	3.64	174.53	1 1/4	1.250x24x 72
5/16	.313x36x 96	4.55	109.25		36x 96
3/8	.375x36x 96	5.45	130.90	1 1/2	1.500x24x 72
1/2	.500x36x 96	7.27	174.53		36x 96
5/8	.625x36x 96	9.09	218.16	1 3/4	1.750x36x 96
3/4	.750x36x 96	10.91	261.79	2	2.000x24x 72
7/8	.875x36x 96	12.73	305.42		36x 96
1	1.000x36x 96	14.54	349.06	1 3/4	1.750x48x96



ALCOA



ALUMINUM TOOL AND JIG PLATE

CAST STRESS RELIEVED AND MACHINED

Both surfaces of this plate machined to approx. 40 micro-inches. Thickness tolerance plus or minus .010 in. variation from parallel. This material is free from strains, porosity blows and other injurious metallurgical defects.

Typical uses are, for making stretch-forming dies, rubber pad process form blocks, assembly jigs, locating devices, drill jigs, pattern and core plates and inspection fixtures.

Thickness in Inches	Size in Inches	Approx. Wt. per Plate Sq. Ft.	Thickness in Inches	Size in Inches	Approx. Wt. per Plate Sq. Ft.
3/8	.375x48x96	5.53	177.0	1 3/4	1.750x48x96
1/2	.500x48x96	7.38	236.0	2	2.000x48x96
5/8	.625x48x96	9.00	288.0	2 1/2	2.500x48x96
3/4	.750x48x96	10.81	346.0	3	3.000x48x96
1	1.000x48x96	14.75	472.0	3 1/2	3.500x48x96
1 1/4	1.250x48x96	18.47	591.0	4	4.000x48x96
1 1/2	1.500x48x96	22.13	708.0		

DETROIT
T
Mail Bo
13401

ALCOA

ALUMINUM TOOLING PLATE

6061-T6

Identified

A rolled aluminum tooling plate for applications where close thickness tolerance and flatness are required. Material will provide a minimum of distortion when machined.

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness Inches	Size In Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. Per Plate	Thickness Inches	Size In Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. Per Plate
$\frac{3}{8}$	.375x48x 96	5.28	170	$1\frac{1}{2}$	1.500x48x 96	21.20	677
	48x144	5.28	254		48x144	21.20	1016
	60x144	5.28	317		60x144	21.20	1270
$\frac{1}{2}$	.500x48x 96	7.10	226	$1\frac{3}{4}$	1.750x48x 96	24.70	790
	48x144	7.10	339		48x144	24.70	1185
	60x144	7.10	424		60x144	24.70	1481
$\frac{5}{8}$	.625x48x 96	8.80	282	2	2.000x48x 96	28.20	903
	48x144	8.80	423		48x144	28.20	1355
	60x144	8.80	530		60x144	28.20	1693
$\frac{3}{4}$	.750x48x 96	10.60	339	$2\frac{1}{2}$	2.500x48x 96	35.20	1129
	48x144	10.60	508		48x144	35.20	1694
	60x144	10.60	635		60x144	35.20	2117
1	1.000x48x 96	14.10	452	3	3.00 x48x 96	42.30	1355
	48x144	14.10	677		48x144	42.30	2032
	60x144	14.10	847		60x144	42.30	2540
$1\frac{1}{4}$	1.250x48x 96	17.60	565				
	48x144	17.60	847				
	60x144	17.60	1058				

ALCOA

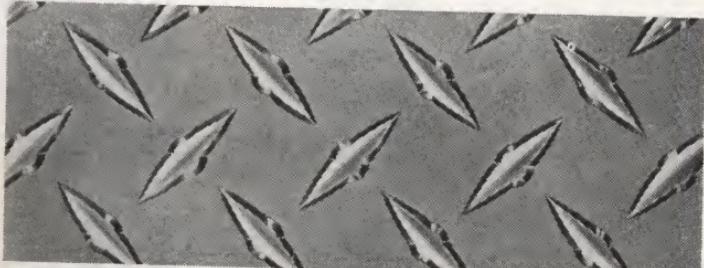
ALUMINUM

ABRASIVE TREAD PLATE

3003

MILL FINISH

Thickness Inches	Size In Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. Per Sheet in Pounds	Thickness Inches	Size In Inches	Approx. Wt. Per Sq. Ft.	Approx. Wt. Per Sheet in Pounds
.125x48x144		1.7	82	.250x48x144		3.4	163
.188x48x144		2.6	125				

ALCOA
ALUMINUM TREAD PLATE
6061-T6FORMERLY 61S-T6
MILL FINISH

PATTERN C-102—Length of diamond $1\frac{1}{16}$ " max. Width of diamond at center $11\frac{1}{32}$ " max.

Physical Properties and Chemical Analysis, Pages 296-300.

Thickness In Inches	Size In Inches	Weight Per Square Ft. in Pounds	Thickness In Inches	Size In Inches	Weight Per Square Ft. in Pounds
$\frac{1}{8}$	.102x48x192	1.70	$\frac{3}{16}$	.188x48x192	2.80
	.125x48x192	1.90		60x192	2.80
	60x192	1.90	$\frac{1}{4}$	.250x48x192	3.70
$\frac{5}{32}$	.156x48x192	2.20		60x192	3.70
	60x192	2.20			

BRASS
COPPERWEIGHTS
DATA

IMA

RE

Music

Wire

GAGE

.004

.005

.006

.007

.008

.009

.010

.011

.012

.013

.014

.016

.018

.020

.022

.024

.026

.029

.031

.033

.035

.037

.039

.041

.043

.045

.047

.049

.051

.055

.059

.063

.067

.071

.075

.080

.085

.090

.095

.100

.106

.112

.118

.124

MUSIC

WIRE

SPRING

WIRES

ALCOA
ALUMINUM INDUSTRIAL CORRUGATED
 
ROOFING SHEET

.032" Thick, 35" Wide, 2.67" Pitch, $\frac{7}{8}$ " Deep

Sheet Length In Feet	Weight per Sq. Ft. In Lbs.	Sq. Ft. Per Sheet	Lbs. Per Sheet	*Approx. No. of Sheets Per Sq. (100 sq. ft.)	*Approx. Weight of Sheets per Sq. Pounds
5	.560	14.48	8.16	6.90	56.0
6	.560	17.37	9.79	5.76	56.0
7	.560	20.27	11.43	4.93	56.0
8	.560	23.16	13.06	4.32	56.0
9	.560	26.07	14.69	3.83	56.0
10	.560	28.94	16.32	3.45	56.0
11	.560	31.85	17.96	3.14	56.0
12	.560	34.72	19.59	2.88	56.0

*For side and end lap allowances add approximately 16%.

**ALUMINUM INDUSTRIAL ROOFING
ACCESSORIES**

Size	Commodity	Weight and/or Quantity
.032 x 20 $\frac{5}{8}$ " Girth x 96" lg.	Plain Ridge Roll	15 Pcs. per Carton 93# per Carton
.032 x 13 $\frac{3}{4}$ " Girth x 42" lg.	Corrugated End Wall Flashing	25 Pcs. per Carton 45# per Carton
.032 x 13 $\frac{3}{4}$ " Girth x 96" lg.	Corrugated Side Wall Flashing	15 Pcs. per Carton 69# per Carton
.032 x 3" Girth x 32" long	Closure Strip (Weather seal)	45 Pcs. per Carton 15# per Carton
.032 x 20 $\frac{5}{8}$ " width x 50' lg.	Roll Flashing (Annealed temper)	1 Pc. per Carton 39.4# per Carton
.050 x $\frac{3}{4}$ " 100 Ft. Coils	Purlin Strap Stock	4.2# per coil
.176 x $\frac{1}{2}$	R53S-T61 Tinners	5# per box
.176 x $\frac{3}{8}$	Rivets	555 pcs. per lb.
.176 x $\frac{3}{8}$	R53S-T61 Tinners	5# per box
.090 x 1" x 2 $\frac{1}{2}$ "	Rivets	660 pcs. per lb.
No. 12-24 x $\frac{5}{8}$ "	Roofing Clips	500 per box 14# per box
No. 12-24 x 1"	Slotted Truss Head Machine Screws with Neoprene Washers attached	10 gross per box 4# per box
No. 12-24 x 1"	Slotted Truss Head Machine Screws with Neoprene Washers attached	10 gross per box 6# per box
No. 12-24	Hexagon Machine Screw Nuts	10 gross per box 3# per box
.150 x 6"	Purlin Nails with Neoprene Washers Applied	1000 per box 12# per box
.150 x 7"	Purlin Nails with Neoprene Washers Applied	1000 per box 12.9# per box
.150 x 8"	Purlin Nails with Neoprene Washers Applied	1000 per box 14.6# per box
.150 x 9"	Purlin Nails with Neoprene Washers Applied	1000 per box 16.3# per box
.150 x 10"	Purlin Nails with Neoprene Washers Applied	1000 per box 18# per box
.150 x 11"	Purlin Nails with Neoprene Washers Applied	1000 per box 19.7# per box
.150 x 12"	Purlin Nails with Neoprene Washers Applied	1000 per box 21.4# per box
.153 x 2 $\frac{1}{2}$ "	Roofing Nails with Neoprene Washers attached	960 nails per box 5# per box
No. 12 x $\frac{3}{4}$ "	Type "A" slotted Pan Head Sheet Metal Screws	1 gross per box $\frac{1}{2}$ # per box

DETROIT

Mail
134

**ALCOA
ROUNDS
ALUMINUM SCREW MACHINE STOCK
2011-T3**

FORMERLY 11S-T3

QQ-A-365 Comp. A.

Physical Properties and Chemical Analysis, Pages 296-297.
Identification Color: Brown.

Size in Inches	Approx. Weight per Ft. in Lbs.	Est. Wt. 12' Bar	Random Lengths Feet	Size in Inches	Approx. Weight per Ft. in Lbs.	Est. Wt. 12' Bar	Random Lengths Feet
1/8	.015	.180	12	15/16	.845	10.14	12
5/32	.023	.276	12	*1	.960	11.52	12
3/16	.034	.408	12	11/16	1.080	12.96	12
7/32	.046	.552	12	*1 1/8	1.220	14.64	12
15/64	.053	.636	12	1 3/16	1.350	16.20	12
1/4	.060	.720	12	*1 1/4	1.490	17.88	12
17/64	.068	.816	12	1 5/16	1.660	19.92	12
9/32	.076	.912	12	*1 3/8	1.810	21.72	12
5/16	.094	1.128	12	1 7/16	2.000	24.00	12
11/32	.113	1.356	12	*1 1/2	2.160	25.92	12
3/8	.135	1.620	12	1 9/16	2.340	28.08	12
25/64	.147	1.764	12	*1 5/8	2.530	30.36	12
13/32	.159	1.908	12	1 11/16	2.740	32.88	12
7/16	.184	2.21	12	*1 3/4	2.950	35.40	12
15/32	.210	2.52	12	1 13/16	3.150	37.80	12
1/2	.240	2.88	12	*1 7/8	3.370	40.44	12
17/32	.271	3.52	12	1 15/16	3.590	43.08	12
35/64	.290	3.48	12	*2	3.840	46.08	12
9/16	.305	3.66	12	*2 1/8	4.340	52.08	12
19/32	.338	4.06	12	*2 1/4	4.860	58.32	12
5/8	.375	4.50	12	*2 3/8	5.410	64.92	12
21/32	.414	4.97	12	*2 1/2	6.000	72.00	12
11/16	.454	5.45	12	2 9/16	6.30	75.60	12
* 3/4	.540	6.48	12	*2 3/4	7.260	87.12	12
13/16	.633	7.60	12	*3	8.640	103.68	6-12
* 7/8	.735	8.82	12				

*Also Stocked 2011-T8

**ALCOA
ALUMINUM ROUNDS
1100-F**

FORMERLY 2S-F

QQ-A-411c

LENGTHS: UP TO 2 3/4" INCLUSIVE—12 FT.

OVER 2 3/4" to 3 1/8" INCLUSIVE 6-12 FT. RANDOM

3 1/2" AND OVER 3-12 FT. RANDOM

Physical Properties and Chemical Analysis, Pages 296-297.
Identification Color: Green.

Size in Inches	Approx. Weight per Ft. in Lbs.	Est. Wt. 12' Bar	Size in Inches	Approx. Weight per Ft. in Lbs.	Est. Wt. 12' Bar	Size in Inches	Approx. Weight per Ft. in Lbs.	Est. Wt: 12' Bar
* 1/8	.015	.180	9/16	.292	3.50	1 3/4	2.826	33.91
** 5/32	.023	.276	5/8	.360	4.32	1 7/8	3.244	38.93
*** 3/16	.032	.384	3/4	.519	6.23	2	3.691	44.29
**** 1/4	.058	.696	7/8	.706	8.47	2 1/4	4.671	56.05
† 5/16	.090	1.080	1	.923	11.08	2 1/2	5.767	69.20
3/8	.130	1.560	1 1/4	1.442	17.30	3	8.304	99.65
7/16	.177	2.12	1 3/8	1.745	20.94	3 1/2	11.301	135.61
1/2	.231	2.77	1 1/2	2.076	24.91	4	14.763	177.16

*1100-H19

**1100-H18

***1100-H16

†1100-H14

BRASS
COPPER

WEIGHTS
DATA


**ALCOA
ROUNDS**

ALUMINUM SCREW MACHINE STOCK**2017-T4**

FORMERLY 17S-T4

QQ-A-351c AMS-4118C

Physical Properties and Chemical Analysis, Pages 296-297.
Identification Color: Yellow.

Size in Inches	Approx. Weight per Ft. in Lbs.	Est. Wt. 12' Bar	Random Lengths Feet	Size in Inches	Approx. Weight per Ft. in Lbs.	Est. Wt. 12' Bar	Random Lengths Feet
1/8	.015	.180	12	1 5/8	2.509	30.11	12
5/32	.023	.276	12	1 11/16	2.706	32.47	12
11/64	.028	.336	12	1 3/4	2.910	34.92	12
3/16	.033	.396	12	1 13/16	3.122	37.46	12
7/32	.046	.552	12	1 7/8	3.341	40.09	12
1/4	.059	.708	12	1 15/16	3.568	42.82	12
9/32	.075	.900	12	2	3.802	45.62	12
5/16	.093	1.116	12	2 1/16	4.043	48.52	12
3/8	.134	1.608	12	2 1/8	4.291	51.49	12
13/32	.157	1.884	12	2 3/16	4.548	54.58	12
7/16	.182	2.18	12	2 1/4	4.811	57.73	12
15/32	.209	2.51	12	2 5/16	5.082	60.98	12
1/2	.238	2.86	12	2 3/8	5.361	64.33	12
17/32	.268	3.22	12	2 7/16	5.647	67.76	12
9/16	.302	3.62	12	2 1/2	5.940	71.28	12
19/32	.335	4.02	12	2 9/16	6.240	74.88	12
5/8	.372	4.46	12	2 5/8	6.549	78.59	12
1 1/16	.449	5.39	12	2 3/4	7.187	86.24	12
23/32	.491	5.89	12	2 7/8	7.855	94.26	6-12
3/4	.536	6.43	12	3	8.553	102.64	6-12
25/32	.580	6.96	12	3 1/8	9.281	111.37	6-12
13/16	.627	7.52	12	3 1/4	10.038	120.46	6-12
7/8	.728	8.74	12	3 3/8	10.825	129.90	6-12
15/16	.836	10.03	12	3 1/2	11.642	139.70	3-12
1	.951	11.41	12	3 3/4	13.365	160.38	3-12
1 1/16	1.073	12.88	12	4	15.206	182.47	3-12
1 1/8	1.203	14.44	12	4 1/4	17.166	205.99	3-12
1 3/16	1.340	16.08	12	4 1/2	19.245	230.94	3-12
1 1/4	1.485	17.82	12	4 3/4	21.443	257.32	3-12
1 5/16	1.637	19.64	12	5	23.759	285.11	3-12
1 3/8	1.797	21.56	12	5 1/2	28.839	346.07	3-12
1 7/16	1.964	23.57	12	6	34.213	410.56	3-12
1 1/2	2.138	25.66	12	7	46.568	558.82	3-12
1 9/16	2.320	27.84	12	8	60.822	729.86	3-12


ALUMINUM ROUNDS

7075-T6

QQ-A-282-1 AMS-4122B

LENGTHS: UP TO 2 3/4" INCLUSIVE—12 FT.
OVER 2 3/4" TO 3 3/8" INCLUSIVE—6-12 FT. RANDOM
3 1/2" AND OVER 3-12 FT. RANDOMPhysical Properties and Chemical Analysis, Pages 296-299.
Identification Color: Orange

Size in Inches	Approx. Weight per Ft. in Lbs.	Approx. Weight per 12' Bar	Size in Inches	Approx. Weight per Ft. in Lbs.	Approx. Weight per 12' Bar	Size in Inches	Approx. Weight per Ft. in Lbs.	Approx. Weight per 12' Bar
3/8	.134	1.61	1 1/2	2.14	25.68	3	8.55	102.60
1/2	.238	2.86	1 3/4	2.91	34.92	3 1/4	10.04	120.48
3/4	.535	6.42	2	3.80	45.60	3 1/2	11.64	139.68
1	.950	11.40	2 1/2	5.94	71.28	3 3/4	13.37	160.44
1 1/8	1.20	14.40	2 3/4	7.19	86.28	4	15.20	182.40

Mail

1:

ALCOA
ALUMINUM ROUNDS
2024-T4

FORMERLY 24S-T4

QQ-A-268-1 AMS-4120D

LENGTHS: UP TO 2 $\frac{3}{4}$ " INCLUSIVE—12 FT.
OVER 2 $\frac{3}{4}$ " TO 3 $\frac{3}{8}$ " INCLUSIVE—6-12 FT. RANDOM
3 $\frac{1}{2}$ " AND OVER 3-12 FT. RANDOM

Physical Properties and Chemical Analysis, Pages 296-297.

Identification Color: Red.

Size in Inches	Est. Wt. 12' Bar	Approx. Weight per Ft. in Lbs.	Size in Inches	Est. Wt. 12' Bar	Approx. Weight per Ft. in Lbs.	Size in Inches	Est. Wt. 12' Bar	Approx. Weight per Ft. in Lbs.
1/8	.180	.015	1 1/8	14.28	1.19	2 3/4	85.44	7.12
3/16	.396	.033	1 1/4	17.64	1.47	2 7/8	93.36	7.78
1/4	.708	.059	1 5/16	19.44	1.62	3	101.64	8.47
5/16	1.104	.092	1 3/8	21.24	1.77	3 1/8	110.28	9.19
3/8	1.584	.132	1 7/16	23.40	1.95	3 1/4	119.16	9.93
7/16	2.16	.180	1 1/2	25.44	2.12	3 3/8	128.64	10.72
1/2	2.82	.235	1 9/16	27.60	2.30	3 1/2	138.36	11.53
9/16	3.58	.298	1 5/8	29.88	2.49	3 3/4	158.76	13.23
5/8	4.40	.367	1 3/4	34.56	2.88	4	180.72	15.06
11/16	5.34	.445	1 7/8	39.72	3.31	4 1/4	204.00	17.00
3/4	6.35	.529	2	45.12	3.76	4 1/2	228.60	19.05
13/16	7.45	.621	2 1/8	51.00	4.25	4 3/4	254.88	21.24
7/8	8.64	.720	2 1/4	69.12	4.76	5	282.36	23.53
15/16	9.92	.827	2 3/8	63.72	5.31	5 1/4	311.28	25.94
1	11.29	.941	2 1/2	70.56	5.88	5 1/2	342.72	28.56
1 1/16	12.72	1.06	2 5/8	77.88	6.49	6 1/2	406.56	33.88

ALCOA
ALUMINUM ROUNDS

6061-T6

FORMERLY 61S-T6

QQ-A-325a-2

LENGTHS: UP TO 2 $\frac{3}{4}$ " INCLUSIVE—12 FT.
OVER 2 $\frac{3}{4}$ " TO 3 $\frac{3}{8}$ " INCLUSIVE—6-12 FT. RANDOM
3 $\frac{1}{2}$ " AND OVER 3-12 FT. RANDOM

Physical Properties and Chemical Analysis, Pages 296-298.

Identification Color: Blue.

Size in Inches	Est. Wt. 12' Bar	Approx. Weight per Ft. in Lbs.	Size in Inches	Est. Wt. 12' Bar	Approx. Weight per Ft. in Lbs.	Size in Inches	Est. Wt. 12' Bar	Approx. Weight per Ft. in Lbs.
1/8	.180	.015	1 1/8	14.04	1.17	2 3/4	83.76	6.98
3/16	.396	.033	1 1/4	17.28	1.44	3	99.60	8.30
1/4	.696	.058	1 5/16	19.08	1.59	3 1/4	117.00	9.75
5/16	1.080	.090	1 3/8	20.88	1.74	3 1/2	135.60	11.30
3/8	1.560	.130	1 1/2	24.96	2.08	3 3/4	155.76	12.98
7/16	2.12	.177	1 5/8	29.28	2.44	4	177.12	14.76
1/2	2.76	.230	1 3/4	33.96	2.83	4 1/2	224.16	18.68
9/16	3.49	.291	1 7/8	38.88	3.24	5	276.84	23.07
5/8	4.32	.360	2	44.28	3.69	5 1/2	336.00	28.00
3/4	6.23	.519	2 1/8	50.04	4.17	6	398.64	33.22
7/8	8.47	.706	2 1/4	56.04	4.67	6 1/2	467.76	38.98
1	11.06	.922	2 5/8	69.24	5.77	7	542.52	45.21

BRASS
COPPER

WEIGHTS
DATA

ALCOA


ALUMINUM HEXAGONS
2011-T3


FORMERLY 11S-T3

QQ-A-365 Comp. A.

SCREW MACHINE STOCK
12 FT. STANDARD LENGTHSPhysical Properties and Chemical Analysis, Pages 296-297.
Identification Color: Brown.

Size in Inches	Approx. Weight		Size in Inches	Approx. Weight		Size in Inches	Approx. Weight	
	per Ft. in Lbs.	Est. Wt. 12' Bar		per Ft. in Lbs.	Est. Wt. 12' Bar		per Ft. in Lbs.	Est. Wt. 12' Bar
1/4	.066	.792	9/16	.335	4.02	15/16	.929	11.15
5/16	.104	1.248	5/8	.414	4.97	1	1.057	12.68
11/32	.128	1.536	11/16	.500	6.00	1 1/16	1.15	13.800
3/8	.149	1.778	3/4	.595	7.14	1 1/8	1.338	16.06
7/16	.203	2.44	13/16	.699	8.39	1 1/4	1.651	19.81
1/2	.265	3.18	7/8	.810	9.72	1 3/8	2.000	24.00

ALCOA


ALUMINUM HEXAGONS
2017-T4


FORMERLY 17S-T4

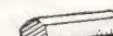
QQ-A-351c AMS-4118C

SCREW MACHINE STOCK

LENGTHS: UP TO 2" INCLUSIVE—12 FT.
2 1/16" AND OVER—6 TO 12 FT. RANDOMPhysical Properties and Chemical Analysis, Pages 296-297.
Identification Color: Yellow.

Size in Inches	Approx. Weight		Size in Inches	Approx. Weight		Size in Inches	Approx. Weight	
	per Ft. in Lbs.	Est. Wt. 12' Bar		per Ft. in Lbs.	Est. Wt. 12' Bar		per Ft. in Lbs.	Est. Wt. 12' Bar
3/16	.037	.444	13/16	.692	8.30	17/16	2.163	25.96
1/4	.065	.780	7/8	.802	9.62	1 1/2	2.355	28.26
5/16	.102	1.224	15/16	.920	11.04	1 5/8	2.767	33.20
3/8	.147	1.764	1	1.047	12.56	1 3/4	3.203	38.44
7/16	.201	2.41	11/16	1.182	14.18	1 7/8	3.684	44.21
1/2	.262	3.14	1 1/8	1.325	15.90	2	4.192	50.30
9/16	.333	4.00	1 3/16	1.476	17.71	2 1/4	5.305	63.66
5/8	.409	4.91	1 1/4	1.635	19.62	2 1/2	6.549	78.59
11/16	.495	5.94	1 5/16	1.803	21.64	2 3/4	7.925	95.10
3/4	.589	7.07	1 3/8	1.979	23.75	3	9.431	113.17

ALCOA


ALUMINUM HEXAGONS
2024-T4


FORMERLY 24S-T4

QQ-A-268-1 AMS-4120D

LENGTHS: UP TO 2" INCLUSIVE—12 FT.
2 1/16" AND OVER—6-12 FT. RANDOMPhysical Properties and Chemical Analysis, Pages 296-297.
Identification Color: Red.

Size in Inches	Approx. Weight		Size in Inches	Approx. Weight		Size in Inches	Approx. Weight	
	per Ft. in Lbs.	Est. Wt. 12' Bar		per Ft. in Lbs.	Est. Wt. 12' Bar		per Ft. in Lbs.	Est. Wt. 12' Bar
3/16	.037	.444	11/16	.491	5.89	1 5/8	2.740	32.88
1/4	.064	.768	3/4	.584	7.01	1 3/4	3.178	38.14
5/16	.117	1.404	7/8	.795	9.54	1 7/8	3.648	43.78
3/8	.146	1.752	1	1.037	12.44	2	4.151	49.81
7/16	.199	2.39	1 1/8	1.312	15.74	2 1/4	5.253	63.04
1/2	.259	3.11	1 1/4	1.620	19.44	2 1/2	6.486	77.83
9/16	.328	3.94	1 3/8	1.960	23.52	2 3/4	7.848	94.18
5/8	.405	4.86	1 1/2	2.332	27.94	3	9.340	112.08

DETROIT
T
Mail Bo
13400

ALCOA
ALUMINUM RECTANGLES
2024-T4

FORMERLY 24S-T4

QQ-A-268-1 AMS-4120D

SQUARE EDGE

12 FT. STANDARD LENGTHS

(Except *WHICH ARE 3 TO 12 FT. RANDOM)

Physical Properties and Chemical Analysis, Pages 296-297.
 Identification Color: Red.

Size in Inches	Weight per Foot in Lbs.	Est. Wt. 12' Bar	Size in Inches	Weight per Foot in Lbs.	Est. Wt. 12' Bar
$\frac{1}{8}x\frac{1}{2}$	.075	.900	$\frac{1}{2}x2\frac{1}{2}$	1.498	17.98
$\frac{5}{8}$	.094	1.128	3	1.797	21.56
$\frac{3}{4}$	.112	1.344	4	2.397	28.76
1	.150	1.800	6	3.595	43.14
$1\frac{1}{4}$	.187	2.24	*8	4.793	57.52
$1\frac{1}{2}$	.225	2.70	*10	5.992	71.90
2	.300	3.60	$\frac{5}{8}x\frac{3}{4}$	.562	6.74
$\frac{3}{16}x\frac{1}{2}$	.112	1.34	$\frac{7}{8}$	.656	7.87
$\frac{5}{8}$	.140	1.68	1	.747	8.96
$\frac{3}{4}$	.169	2.03	$1\frac{1}{4}$	.936	11.23
1	.225	2.70	$1\frac{1}{2}$	1.123	13.48
$1\frac{1}{4}$	.281	3.37	2	1.498	17.98
$1\frac{1}{2}$	.337	4.04	$\frac{3}{4}x1$	.899	10.79
2	.449	5.39	$1\frac{1}{2}$	1.348	16.18
$\frac{1}{4}x\frac{1}{2}$	.156	1.872	2	1.797	21.56
$\frac{5}{8}$	.187	2.24	$2\frac{1}{2}$	2.247	26.96
$\frac{3}{4}$	.225	2.70	3	2.696	32.35
$\frac{7}{8}$	.262	3.14	$3\frac{1}{2}$	3.146	37.75
1	.300	3.60	*6	5.392	64.70
$1\frac{1}{4}$	.374	4.49	1 $x1\frac{1}{4}$	1.490	17.88
$1\frac{1}{2}$	.449	5.39	$1\frac{1}{2}$	1.797	21.56
2	.599	7.19	$1\frac{3}{4}$	2.097	25.16
$2\frac{1}{2}$	.749	8.99	2	2.397	28.76
3	.900	10.80	$2\frac{1}{2}$	2.996	35.95
4	1.198	14.38	3	3.595	43.14
$\frac{5}{16}x\frac{1}{2}$	.187	2.24	$3\frac{1}{2}$	4.194	50.33
$\frac{5}{8}$	.234	2.81	*4	4.793	57.52
$\frac{3}{4}$	.281	3.37	*6	7.190	86.28
1	.374	4.49	$1\frac{1}{4}x1\frac{1}{2}$	2.247	26.96
$1\frac{1}{2}$	.562	6.74	2	2.996	35.95
2	.749	8.99	$2\frac{1}{2}$	3.745	44.94
$\frac{3}{8}x\frac{1}{2}$	.225	2.70	*3	4.494	53.93
$\frac{5}{8}$	.281	3.37	$1\frac{1}{2}x2$	3.595	43.14
$\frac{3}{4}$	.337	4.04	$2\frac{1}{2}$	4.494	53.93
1	.449	5.39	*3	5.392	64.70
$1\frac{1}{4}$	.562	6.74	*4	7.190	86.28
$1\frac{1}{2}$	.674	8.09	*6	10.785	129.42
$1\frac{3}{4}$	.786	9.43	*8	14.380	172.56
2	.899	10.79	*2 $x2\frac{1}{4}$	5.398	64.78
$2\frac{1}{2}$	1.123	13.48	$2\frac{1}{2}$	5.992	71.90
3	1.348	16.18	*3	7.190	86.28
4	1.797	21.56	*4	9.586	115.03
6	2.696	32.35	*6	14.380	172.56
*10	4.494	53.93	*2 $\frac{1}{4}x4$	10.785	129.42
$\frac{1}{2}x\frac{5}{8}$	.374	4.49	*2 $\frac{1}{2}x4$	11.983	143.80
$\frac{3}{4}$	.449	5.39	*4 $\frac{1}{2}$	13.481	161.77
$\frac{7}{8}$	.524	6.29	*5	14.979	179.75
1	.599	7.19	*6	17.974	215.69
$1\frac{1}{4}$	.749	8.99	*2 $\frac{3}{4}x4$	13.181	158.17
$1\frac{1}{2}$	.899	10.79	*3 x4	14.380	172.56
$1\frac{3}{4}$	1.048	12.58	*6	21.569	258.83
2	1.198	14.38			

BRASS
COPPER

WEIGHTS
DATA

DECIM

WIRE
Mu
Wi

IT
per
Gage
in
E

Bl .04
43 .04
36 .04
05 .04
22 .04

06 .04
36 .04
38 .04
84 .04
54 .04

43 .04
83 .04
36 .04
00 .04
87 .04

38 .04
04 .04
78 .04
60 .04
45 .04

32 .04
087 .06
080 .06
070 .07
060 .07

052 .08
046 .08
044 .09
037 .09
029 .10

024 .10
022 .11
019 .11
017 .12

RE- MUS

shes W

ILS SPR

urn W



**ALCOA
ALUMINUM RECTANGLES**

6061-T6

FORMERLY 61S-T6

QQ-A-325a-2

SQUARE EDGE

12 FT. STANDARD LENGTHS

(Except *Which Are 3 to 12 Ft. Random)

Physical Properties and Chemical Analysis, Pages 296-298.
Identification Color: Blue.

Size in Inches	Weight per Foot in Lbs.	Est. Wt. 12' Bar	Size in Inches	Weight per Foot in Lbs.	Est. Wt. 12' Bar
$\frac{1}{8} \times 1$	.147	1.764	$\frac{3}{8} \times 4$	1.762	21.14
2	.294	3.528	6	2.643	31.72
$\frac{3}{16} \times \frac{3}{4}$	.165	1.980	$\frac{1}{2} \times 1$	.587	3.44
1	.220	2.64	2	1.175	14.10
$1\frac{1}{2}$	.331	3.97	$2\frac{1}{2}$	1.469	17.63
2	.441	5.29	3	1.762	21.14
$\frac{1}{4} \times 1$	.294	3.53	4	2.350	28.20
$1\frac{1}{4}$	.367	4.40	6	3.524	42.29
$1\frac{1}{2}$	.441	5.29	$\frac{3}{4} \times 1$	.881	10.57
2	.587	7.04	2	1.762	21.14
3	.881	10.57	3	2.533	30.40
$\frac{3}{8} \times \frac{1}{2}$	.220	2.64	1×2	2.350	28.20
$\frac{3}{4}$	.330	3.96	*4	4.700	56.40
1	.441	5.29	$1\frac{1}{4} \times 2$	2.937	35.24
$1\frac{1}{4}$	.551	6.61	* $1\frac{1}{2} \times 2\frac{1}{2}$	4.406	52.87
2	.881	10.57	*3	5.287	63.44
3	1.322	15.86	*6	10.573	126.88



**ALCOA
ALUMINUM RECTANGLES**

7075-T6

QQ-A-282-1

SQUARE EDGE

12 FT. STANDARD LENGTHS

(Except *Which Are 3 to 12 Ft. Random)

Physical Properties and Chemical Analysis, Pages 296-299.
Identification Color: Orange

Size in Inches	Approx. Wt. per Ft. in Pounds	Approx. Wt. per 12 Ft. Bar	Size in Inches	Approx. Wt. per Ft. in Pounds	Approx. Wt. per 12 Ft. Bar
$\frac{1}{4} \times 1$	.303	3.64	$*1\frac{1}{4} \times 3$	4.538	54.46
$1\frac{1}{2}$	.454	5.45	$*1\frac{1}{2} \times 2\frac{1}{2}$	4.538	54.46
3	.907	10.88	*4	7.260	87.12
$\frac{3}{8} \times 1$	.454	5.45	$*2 \times 2\frac{1}{2}$	6.050	72.60
$\frac{1}{2} \times 1\frac{1}{2}$	.907	10.88	*3	7.260	87.12
4	2.421	29.05	*4	9.680	116.16
$\frac{3}{8} \times 1$	.756	9.07	*6	14.521	174.25
$\frac{3}{4} \times 3$	2.722	32.66	$*2\frac{1}{2} \times 4$	12.100	145.20
$1 \times 1\frac{3}{4}$	2.118	25.42	*6	18.151	217.81
2	2.421	29.05	$*3 \times 4$	14.521	174.25
3	3.630	43.56	$*4\frac{1}{2}$	16.336	196.03
*4	4.840	58.08	*6	21.780	261.36

DETROIT
Twin
Mail Box
13400 N



**ALCOA
ALUMINUM SQUARES**

1100-H14

QQ-A-411c

12 FT. STANDARD LENGTHS

Physical Properties and Chemical Analysis, Pages 296-297.

Identification Color: Green



Size in Inches	Approx. Weight per Ft. in Lbs.		Size in Inches	Approx. Weight per Ft. in Lbs.		Size in Inches	Approx. Weight per Ft. in Lbs.	
	Est. Wt. 12' Bar	.12' Bar		Est. Wt. 12' Bar	.12' Bar		Est. Wt. 12' Bar	.12' Bar
3/16	.041	.492	1/4	.073	.876	5/16	.115	1.380



**ALCOA
ALUMINUM SQUARES**

2017-T4

FORMERLY 17S-T4

QQ-A-351c AMS-4118C

12 FT. STANDARD LENGTHS

Physical Properties and Chemical Analysis, Pages 296-297.

Identification Color: Yellow.



Size in Inches	Approx. Weight per Ft. in Lbs.		Size in Inches	Approx. Weight per Ft. in Lbs.		Size in Inches	Approx. Weight per Ft. in Lbs.	
	Est. Wt. 12' Bar	.12' Bar		Est. Wt. 12' Bar	.12' Bar		Est. Wt. 12' Bar	.12' Bar
3/8	.170	2.04	5/8	.681	8.17	1 1/4	1.891	22.69
1/16	.232	2.78	7/8	.926	11.11	1 1/2	2.722	32.66
1/2	.303	3.64	1	1.210	14.52	2	4.840	58.08
5/8	.473	5.68						



**ALCOA
ALUMINUM SQUARES**

2024-T4

FORMERLY 24S-T4

QQ-A-268-1 AMS-4120D

LENGTHS—UP TO 2" INCLUSIVE—12 FT.

2 1/16" TO 3 3/8" INCLUSIVE—6-12 FT. RANDOM

3 1/2" AND OVER—3-12 FT. RANDOM

Physical Properties and Chemical Analysis, Pages 296-297.

Identification Color: Red.



Size in Inches	Approx. Weight per Ft. in Lbs.		Size in Inches	Approx. Weight per Ft. in Lbs.		Size in Inches	Approx. Weight per Ft. in Lbs.	
	Est. Wt. 12' Bar	.12' Bar		Est. Wt. 12' Bar	.12' Bar		Est. Wt. 12' Bar	.12' Bar
3/8	.169	2.03	1	1.193	14.40	*2 1/2	7.500	90.00
7/16	.229	2.75	1 1/8	1.517	18.24	*2 3/4	9.076	108.91
1/2	.300	3.60	1 1/4	1.872	22.44	*3	10.800	129.60
9/16	.380	4.55	1 1/2	2.696	32.40	3 1/4	12.658	151.92
5/8	.469	5.62	1 3/4	3.670	44.04	3 1/2	14.678	176.16
3/4	.674	8.09	2	4.793	57.48	4	19.176	230.16
7/8	.917	11.00	*2 1/4	6.076	72.19			

*Extruded Bars—12 Ft. lengths.



ALCOA

ALUMINUM SQUARES

6063-T5 (Extruded)

FORMERLY 63S-T5 (EXTRUDED)

SHARP CORNERS



16 FT. STANDARD LENGTHS

Physical Properties and Chemical Analysis, Pages 296-299.

Identification Color: Lavender

Size in Inches	Approx. Weight per Ft. in Lbs.		Size in Inches	Approx. Weight per Ft. in Lbs.		Size in Inches	Approx. Weight per Ft. in Lbs.	
	Est. Wt. 16' Bar	.16' Bar		Est. Wt. 16' Bar	.16' Bar		Est. Wt. 16' Bar	.16' Bar
1/4	.075	1.200	1/2	.300	4.80	1	1.200	19.20
5/16	.116	1.856	5/8	.468	7.49	1 1/4	1.875	30.00
3/8	.168	2.688	3/4	.674	10.78	1 1/2	2.700	43.20

BRASS
COPPER

WEIGHTS
DATA

ALCOA



ALUMINUM ROUNDS



6063-T5 (Extruded)

FORMERLY 63S-T5 (EXTRUDED)

16 FT. STANDARD LENGTHS

Physical Properties and Chemical Analysis, Pages 296-299.

Identification Color: Lavender

Size in Inches	Approx. Wt. per Ft. in Lbs.	Approx. Wt. per 16 Ft. Bar	Size in Inches	Approx. Wt. per Ft. in Lbs.	Approx. Wt. per 16 Ft. Bar
1/2	.235	3.76	5/8	.368	5.89
1			3/4		
			1		

ALCOA



ALUMINUM RECTANGLES



6063-T5 (Extruded)

FORMERLY 63S-T5 (Extruded)

SHARP CORNERS

16 FT. STANDARD LENGTHS

Physical Properties and Chemical Analysis, Pages 296-299.

Identification Color: Lavender

Size in Inches	Weight per Foot in Lbs.	Est. Wt. 16' Bar	Size in Inches	Weight per Foot in Lbs.	Est. Wt. 16' Bar
1/8 x 1/2	.075	1.20	1/4 x 2 1/2	.750	12.00
5/8	.094	1.50	3	.900	14.40
3/4	.113	1.81	3/8 x 1/2	.224	3.58
1	.150	2.40	5/8	.281	4.50
1 1/4	.187	2.99	3/4	.338	5.41
1 1/2	.226	3.62	1	.450	7.20
1 3/4	.263	4.21	1 1/4	.563	9.01
2	.300	4.80	1 1/2	.675	10.80
3/16 x 1/2	.113	1.81	2	.900	14.40
3/4	.169	2.70	3	1.350	21.60
1	.226	3.62	1/2 x 3/4	.450	7.20
1 1/4	.282	4.51	1	.600	9.60
1 1/2	.338	5.41	1 1/4	.750	12.00
2	.451	7.22	1 1/2	.900	14.40
2 1/2	.564	9.02	2	1.200	19.20
1/4 x 1/2	.150	2.40	2 1/2	1.500	24.00
5/8	.187	2.99	3	1.800	28.80
3/4	.225	3.60	3/4 x 1 1/2	1.350	21.60
1	.300	4.80	2	1.800	28.80
1 1/4	.374	5.98	1 x 1 1/2	1.800	28.80
1 1/2	.450	7.20	2	2.400	38.40
1 3/4	.525	8.40			
2	.600	9.60			

DETRO

Mail B
1340

ALCOA


ALUMINUM WIRE IN COILS
1100-0


FORMERLY 2S-0 SOFT

Physical Properties and Chemical Analysis, Pages 296-297.

Diameter in Inches	Approx. Weight Per Foot in Pounds	Diameter in Inches	Approx. Weight Per Foot in Pounds
.051	.0023	.102	.0100
.064	.0038	.125	.0145
.081	.0060	.187	.0324
.091	.0076	.250	.0577

ALCOA


ALUMINUM WIRE IN COILS
1100-H19


FORMERLY 2S-H18—HARD

Physical Properties and Chemical Analysis, Pages 296-297.

Diameter in Inches	Approx. Weight Per Foot in Pounds	Diameter in Inches	Approx. Weight Per Foot in Pounds
.091	.0076	* .187	.0324
.125	.0145		

*1100-H18

ALCOA
ALUMINUM RIVET WIRE IN COILS**1100-H14**

FORMERLY 2S

Physical Properties and Chemical Analysis, Pages 296-297.

Diameter in Inches	Approx. Weight Per Foot in Pounds	Diameter in Inches	Approx. Weight Per Foot in Pounds
.061	.0035	.162	.0242
.092	.0078	.184	.0314
.118	.0110	.247	.0560
.123	.0143	.310	.0895
.154	.0223	.372	.1292

ALCOA
ALUMINUM RIVET WIRE IN COILS**2017-H13**

FORMERLY 17S

Physical Properties and Chemical Analysis, Pages 296-297.

Diameter in Inches	Approx. Weight Per Foot in Pounds	Diameter in Inches	Approx. Weight Per Foot in Pounds
.092	.0080	.247	.0576
.118	.0113	.271	.0731
.123	.0147	.310	.0921
.154	.0229	.372	.1330
.184	.0249		

G

BRASS
COPPERWEIGHTS
DATA



**ALCOA
ALUMINUM ANGLES**

**6061-T6**

Formerly 61S-T

QQ-A-325a-2

25 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-298.
Identification Color: Blue.

Size in Inches	Weight per Foot in Lbs.	Size in Inches	Weight per Foot in Lbs.
* $\frac{3}{4}x\frac{3}{4}x\frac{1}{16}$	.106	2 x2 $x\frac{3}{16}$	.84
$\frac{3}{4}x\frac{3}{4}x\frac{1}{8}$	.20	2 x2 $x\frac{1}{4}$	1.11
1 x1 $x\frac{1}{8}$	.27	2 x2 $x\frac{3}{8}$	1.60
1 x1 $x\frac{3}{16}$	.40	2 $\frac{1}{2}$ x2 $x\frac{3}{16}$	.96
1 x1 $x\frac{1}{4}$	.51	2 $\frac{1}{2}$ x2 $x\frac{1}{4}$	1.25
1 $\frac{1}{4}$ x1 $\frac{1}{4}$ x $\frac{1}{8}$	.35	2 $\frac{1}{2}$ x2 $x\frac{5}{16}$	1.54
1 $\frac{1}{4}$ x1 $\frac{1}{4}$ x $\frac{3}{16}$	.51	2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x $\frac{3}{16}$	1.07
1 $\frac{1}{4}$ x1 $\frac{1}{4}$ x $\frac{1}{4}$	.66	2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x $\frac{1}{4}$	1.41
1 $\frac{1}{2}$ x1 $\frac{1}{4}$ x $\frac{1}{8}$	.39	2 $\frac{1}{2}$ x2 $\frac{1}{2}$ x $\frac{5}{16}$	1.73
1 $\frac{1}{2}$ x1 $\frac{1}{4}$ x $\frac{3}{16}$	.56	3 x2 $x\frac{3}{16}$	1.07
1 $\frac{1}{2}$ x1 $\frac{1}{4}$ x $\frac{1}{4}$	.74	3 x2 $x\frac{1}{4}$	1.40
1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{1}{8}$	.43	3 x2 $x\frac{3}{8}$	2.05
1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{3}{16}$	.62	3 x2 $\frac{1}{2}$ x $\frac{1}{4}$	1.53
1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{1}{4}$	.81	3 x3 $x\frac{3}{16}$	1.29
1 $\frac{3}{4}$ x1 $\frac{1}{4}$ x $\frac{1}{8}$	.43	3 x3 $x\frac{1}{4}$	1.68
1 $\frac{3}{4}$ x1 $\frac{1}{4}$ x $\frac{3}{16}$	.62	3 x3 $x\frac{5}{16}$	2.08
1 $\frac{3}{4}$ x1 $\frac{1}{4}$ x $\frac{1}{4}$	.81	3 x3 $x\frac{3}{8}$	2.47
1 $\frac{3}{4}$ x1 $\frac{3}{4}$ x $\frac{1}{8}$	.49	3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x $\frac{1}{4}$	1.68
1 $\frac{3}{4}$ x1 $\frac{3}{4}$ x $\frac{3}{16}$	.73	3 $\frac{1}{2}$ x3 $\frac{1}{2}$ x $\frac{5}{16}$	2.45
1 $\frac{3}{4}$ x1 $\frac{3}{4}$ x $\frac{1}{4}$	.95	4 x3 $x\frac{1}{4}$	1.99
2 x1 $\frac{1}{2}$ x $\frac{1}{8}$	.49	4 x3 $x\frac{3}{8}$	2.92
2 x1 $\frac{1}{2}$ x $\frac{3}{16}$	.73	4 x4 $x\frac{1}{4}$	2.28
2 x1 $\frac{1}{2}$ x $\frac{1}{4}$	.95	4 x4 $x\frac{5}{16}$	2.82
2 x2 $x\frac{1}{8}$	.57	4 x4 $x\frac{3}{8}$	3.36

*Extruded Die 78K, 6062-T6, 22' Long, page 199.



**ALCOA
ALUMINUM TEES***

**6062-T6**Formerly 62S-T6 Extruded Aluminum
22 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-299.
Identification Color: Blue.

Die No.	Size	Weight per Foot in Lbs.	Die No.	Size	Weight per Foot in Lbs.
853-F	1 x1 $x\frac{1}{8}$	.320	853-K	1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{3}{16}$	.700
853-B	1 $\frac{1}{2}$ x1 $\frac{1}{4}$ x $\frac{1}{8}$	.450	853-G	1 $\frac{1}{2}$ x1 $\frac{1}{2}$ x $\frac{1}{4}$	.890
853-N	1 $\frac{1}{2}$ x1 $\frac{1}{4}$ x $\frac{3}{16}$	.628	†Rolled	2 x2 $x\frac{1}{4}$	1.290

†6061-T6 25 ft. Random.

*Cut and dimensions, page 200.



**ALCOA
ALUMINUM BEAMS**

**6061-T6**

Formerly 61S-T

QQ-A-325a-2

25 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-298.
Identification Color: Blue.

Size in Inches	Flange Width	Approx. Weight per Foot in Lbs.	Size in Inches	Flange Width	Approx. Weight per Foot in Lbs.
3"x.170	2.330	1.96	5"x.210	3.000	3.42
3"x.349	2.509	2.59	5"x.494	3.284	5.09
4"x.190	2.660	2.64	6"x.230	3.300	4.30
*4"x.313	4.000	4.70	6"x.343	3.430	5.09
4"x.326	2.796	3.28			

*H. Beam.



**ALCOA
ALUMINUM CHANNELS**

**6061-T6**

FORMERLY 61S-T

QQ-A-325a-2

25 Ft. Lengths

Physical Properties and Chemical Analysis, Pages 296-298.

Identification Color: Blue.

Size in Inches	Flange Width	Approx. Weight per Foot in Lbs.	Size in Inches	Flange Width	Approx. Weight per Foot in Lbs.
3x.170	1.410	1.42	5x.472	2.032	3.97
3x.258	1.498	1.73	6x.225	1.945	3.00
3x.356	1.596	2.07	6x.314	2.034	3.62
4x.180	1.580	1.84	6x.437	2.157	4.49
4x.247	1.647	2.15	7x.230	2.110	3.53
4x.320	1.720	2.50	8x.250	2.290	4.25
5x.190	1.750	2.31	8x.487	2.527	6.47
5x.325	1.885	3.10			



**ALCOA
ALUMINUM ZEES**

**6061-T6**

FORMERLY 61S-T

QQ-A-325a-2

25 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-298.

Identification Color: Blue

Size in Inches	Flange Width	Approx. Weight per Ft. in Lbs.
3 x $\frac{1}{4}$ x $2\frac{1}{16}$	$2\frac{1}{16}$	2.330

**ALCOA
ALUMINUM ROUND TUBING****TYPE 1 3003**

18 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-297.

O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.	O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.
$\frac{3}{4}$	18	.049	.127	1	18	.049	.172

ALCOA
ALUMINUM ROUND TUBING
2024-T3

FORMERLY 24S-T3
WW-T-785a AMS-4088D

12 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-297.
Identification Color: Red.

O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.	O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.
$\frac{3}{16}$	20	.035	.020	1	18	.049	.1754
$\frac{1}{4}$	20	.035	.0284		16	.065	.2285
$\frac{5}{16}$	18	.049	.0487		13	.095	.2740
$\frac{3}{8}$	18	.049	.0602	$1\frac{1}{8}$	16	.065	.2550
	17	.058	.0694	$1\frac{1}{4}$	18	.049	.2213
$\frac{1}{2}$	20	.035	.0612		16	.065	.2850
$\frac{5}{8}$	20	.035	.0775	$1\frac{1}{2}$	20	.035	.1928
	18	.049	.1061		18	.049	.2683
	16	.065	.1367		16	.065	.3509
$\frac{3}{4}$	20	.035	.0938	2	16	.065	.4733
	18	.049	.1295	$2\frac{1}{2}$	16	.065	.5916
$\frac{7}{8}$	18	.049	.1520		11	.120	1.0812
1	20	.035	.1275	3	11	.120	1.3056

ALCOA
ALUMINUM ROUND TUBING
5052-O

FORMERLY 52S-0 Soft
WW-T-787a AMS-4070D

12 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-298.
Identification Color: White.

O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.	O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.
$\frac{1}{8}$	20	.035	.0115	$\frac{3}{4}$	18	.049	.1257
$\frac{3}{16}$	20	.035	.0195	1	20	.035	.1238
$\frac{1}{4}$	22	.028	.0228		18	.049	.1703
	20	.035	.0275	$1\frac{1}{4}$	20	.035	.1554
$\frac{5}{16}$	20	.035	.0355		18	.049	.2148
$\frac{3}{8}$	20	.035	.0436	$1\frac{1}{2}$	18	.049	.2604
	18	.049	.0584	$1\frac{3}{4}$	18	.049	.3049
$\frac{1}{2}$	20	.035	.0594	2	20	.035	.2515
	18	.049	.0812		18	.049	.3495
$\frac{5}{8}$	20	.035	.0752		16	.065	.4604
	19	.042	.0891	$2\frac{1}{2}$	20	.035	.3158
	18	.049	.1030		18	.049	.4396
$\frac{3}{4}$	20	.035	.0911				

ALCOA
ALUMINUM THREAD LUBRICANT

8 Oz. Jars

DETROIT

Mail
134


ALCOA
ALUMINUM ROUND TUBING
3003-H14


FORMERLY 3S-1/2 Hard
 WW-T-788b-1 AMS-4067B
 12 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-297.
 Identification Color: Pink.

O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.	O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.
$\frac{3}{16}$	24	.022	.014	1	20	.035	.126
$\frac{1}{4}$	24	.022	.019		18	.049	.174
	20	.035	.028		17	.058	.204
$\frac{3}{8}$	24	.022	.029		16	.065	.226
	22	.028	.036	1 $\frac{1}{8}$	17	.058	.230
	20	.035	.044	1 $\frac{3}{4}$	20	.035	.159
	16	.065	.075		18	.049	.219
$\frac{7}{16}$	20	.035	.053		17	.058	.259
$\frac{1}{2}$	22	.028	.049		16	.065	.287
	20	.035	.061	1 $\frac{3}{8}$	17	.058	.285
	18	.049	.083	1 $\frac{1}{2}$	20	.035	.191
	16	.065	.105		18	.049	.266
$\frac{5}{8}$	22	.028	.063		17	.058	.312
	20	.035	.077		16	.065	.347
	18	.049	.105	1 $\frac{3}{4}$	20	.035	.224
	16	.065	.135		18	.049	.311
$\frac{3}{4}$	20	.035	.093		16	.065	.408
	18	.049	.128	2	20	.035	.257
	17	.058	.149		18	.049	.357
	16	.065	.166		16	.065	.469
$\frac{7}{8}$	20	.035	.110	2 $\frac{1}{2}$	18	.049	.447
	18	.049	.150		16	.065	.585
	17	.058	.177	3	16	.065	.707
	16	.065	.196				


ALCOA
ALUMINUM UTILITUBE


50, 100, 500 FT. COILS

Identification Color: Black.

O.D. in Inches	Wall Stubs Gage	Wall Thick- ness	Weight per Ft. in Lbs.	Weight 50 Ft. Coil in Lbs.	Weight 100 Ft. Coil in Lbs.	Weight 500 Ft. Coil in Lbs.
$\frac{1}{8}$ *	23	.025	.0091	.455	.....	.....
$\frac{3}{16}$ *	22	.028	.0163	.815	.....	.....
$\frac{1}{4}$ *	21	.032	.0255	1.275	2.55	12.75
$\frac{5}{16}$ *	20	.035	.0355	1.775	3.55	17.75
$\frac{3}{8}$ *	20	.035	.0435	2.175	4.35	21.75
$\frac{3}{8}$	18	.049	.0584	2.920	5.84	29.20
$\frac{1}{2}$	20	.035	.0595	2.975	5.95	.....
$\frac{1}{2}$ *	18	.049	.0808	4.040	8.08	.....
$\frac{5}{8}$ *	18	.049	.1032	5.160	10.32	.....
$\frac{3}{4}$ *	17	.058	.1468	7.340	14.68	.....

BRASS
COPPER

WEIGHTS
DATA

*Approved by American Gas Association.

ALCOA
ALUMINUM ROUND TUBING
6061-T6
 FORMERLY 61S-T6
 WW-T-789a-2 AMS-4082D
 12 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-298.
 Identification Color: Blue.

O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.	O.D.	Stubs Gage No.	Wall Thickness	Weight Per Ft. in Lbs.
3/16	20	.035	.020	1 1/8	20	.035	.141
	18	.049	.025		17	.058	.228
1/4	20	.035	.028	1 1/4	20	.035	.157
	18	.049	.036		18	.049	.217
5/16	17	.058	.041	17	.058	.256	
	20	.035	.036		16	.065	.284
3/8	18	.049	.048	1 3/8	14	.083	.357
	17	.058	.055		20	.035	.173
7/16	20	.035	.052	1 1/2	17	.058	.309
	18	.049	.070		16	.065	.344
1/2	16	.065	.089	14	.083	.434	
	22	.028	.049		* 1/8	.125	.640
5/8	20	.035	.060	1 5/8	* 1/4	.250	1.155
	18	.049	.082		20	.035	.206
7/8	17	.058	.095	1 3/4	17	.058	.336
	16	.065	.104		17	.058	.363
1 1/8	22	.028	.062	17	14	.083	.510
	20	.035	.076		17	.058	.389
1 1/4	18	.049	.104	2	18	.049	.353
	17	.058	.121		17	.058	.416
1 3/8	16	.065	.134	14	16	.065	.464
	20	.035	.092		14	.083	.590
1 5/8	18	.049	.127	1 1/8	* 1/8	.125	.866
	17	.058	.148		* 1/4	.250	1.620
1 3/4	16	.065	.164	18	18	.049	.398
	14	.083	.204		16	.065	.520
2 1/2	20	.035	.109	14	14	.083	.660
	18	.049	.149		16	.065	.589
2 1/2	17	.058	.175	14	14	.083	.740
	16	.065	.194		* 1/8	.125	1.097
3	20	.035	.125	* 1/4	* 1/4	.250	2.078
	18	.049	.172		16	.065	.700
3	17	.058	.202		14	.083	.890
	16	.065	.224		* 1/8	.125	1.328
3	14	.083	.281		* 1/4	.250	2.540

*Extruded Tube.

DETROIT
T
Mail Box
13401

ALCOA

**ALUMINUM SQUARE TUBE
6063-T5 (Extruded)**

FORMERLY 63S-T5 (Extruded)

SHARP CORNERS

21 FT.-1 IN. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-299.

Identification Color: Yellow.

O.D.	Wall Thickness	Weight Per Ft. in Lbs.	O.D.	Wall Thickness	Weight Per Ft. in Lbs.
$\frac{3}{4}$	.125	.376	$1\frac{1}{2}$	.125	.825
1	.125	.526	$1\frac{3}{4}$	.125	.974
$1\frac{1}{4}$	.125	.674	2	.125	1.126

ALCOA

ALUMINUM RECTANGULAR TUBE**6063-T5 (Extruded)**

FORMERLY 63S-T5 (Extruded)

SHARP CORNERS

21 FT.-1 IN. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-299.

Identification Color: Yellow.

O.D.	Wall Thickness	Weight Per Ft. in Lbs.
$\frac{3}{4} \times 1$	.125	.383
$\frac{3}{4} \times 1\frac{1}{2}$	.125	.604
$1 \times 1\frac{1}{2}$	.125	.677
1×2	.125	.824
$1\frac{1}{4} \times 2\frac{1}{2}$	.125	1.045
$1\frac{1}{2} \times 2$	.125	.971
$1\frac{3}{4} \times 3$	.125	1.339
$1\frac{3}{4} \times 3\frac{1}{2}$	.125	1.486
$1\frac{3}{4} \times 4$	.125	1.633
$1\frac{3}{4} \times 4\frac{1}{2}$	.125	1.780
$1\frac{3}{4} \times 5$	.125	1.927
2×3	.125	1.412
2×5	.125	2.000

ALCOA

ALUMINUM PIPE**6061-T6**

FORMERLY 61S-T6

Schedule 80

20 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-298.

Identification Color: Brown

Nominal Size	O.D. Inches	I.D. Inches	Wall Thickness Inches	Weight Per Ft. in Lbs.
1	1.315	.957	.179	.751
$1\frac{1}{2}$	1.900	1.500	.200	1.256
2	2.375	1.939	.218	1.737
3	3.500	2.900	.300	3.547
$3\frac{1}{2}$	4.000	3.364	.318	4.326
4	4.500	3.826	.337	5.183

BRASS
COPPERWEIGHTS
DATA



**ALCOA
ALUMINUM PIPE
6061-T6**



FORMERLY 61S-T6

Schedule 40

20 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-298.
Identification Color: Blue.

Nominal Size	O.D. Inches	I.D. Inches	Wall Thickness Inches	Weight per Ft. in Lbs.
$\frac{1}{8}$	* .405	.269	.068	.084
$\frac{1}{4}$	* .540	.364	.088	.147
$\frac{3}{8}$	* .675	.493	.091	.196
$\frac{1}{2}$	.840	.622	.109	.294
$\frac{3}{4}$	1.050	.824	.113	.390
1	1.315	1.049	.133	.580
$1\frac{1}{4}$	1.660	1.380	.140	.785
$1\frac{1}{2}$	1.900	1.610	.145	.939
2	2.375	2.067	.154	1.262
$2\frac{1}{2}$	2.875	2.469	.203	2.002
3	3.500	3.068	.216	2.617
$3\frac{1}{2}$	4.000	3.548	.226	3.147
4	4.500	4.026	.237	3.729
5	5.563	5.047	.258	5.051
6	6.625	6.065	.280	6.556
8	8.625	7.981	.322	9.867
10	10.750	10.020	.365	14.000
12	* 12.750	12.000	.375	17.140

*12 Ft. Lengths.



**ALCOA
ALUMINUM PIPE
6063-T6**



FORMERLY 63S-T6

Schedule 40

20 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-299.
Identification Color: Yellow

Nominal Size	O.D. Inches	I.D. Inches	Wall Thickness Inches	Weight per Ft. in Lbs.
$\frac{1}{8}$	* .405	.269	.068	.084
$\frac{1}{4}$	* .540	.364	.088	.147
$\frac{3}{8}$	* .675	.493	.091	.196
$\frac{1}{2}$	.840	.622	.109	.294
$\frac{3}{4}$	1.050	.824	.113	.390
1	1.315	1.049	.133	.580
$1\frac{1}{4}$	1.660	1.380	.140	.785
$1\frac{1}{2}$	1.900	1.610	.145	.939
2	2.375	2.067	.154	1.262
$2\frac{1}{2}$	2.875	2.469	.203	2.002
3	3.500	3.068	.216	2.617
$3\frac{1}{2}$	4.000	3.548	.226	3.147
4	4.500	4.026	.237	3.729
5	5.563	5.047	.258	5.051
6	6.625	6.065	.280	6.556
8	8.625	7.981	.322	9.867
10	10.750	10.020	.365	14.000
12	* 12.750	12.000	.375	17.140

*12 Ft. Lengths.

DETROIT

Mail Box
1340



**ALCOA
ALUMINUM PIPE
3003-H112**

FORMERLY 3S-F
SCHEDULE 40
20 FT. LENGTHS

Physical Properties and Chemical Analysis, Pages 296-297.
Identification Color: Orange.

Nominal Size	O.D. Inches	I.D. Inches	Wall Thickness Inches	Weight per Ft. in Lbs.
1	1.315	1.049	.133	.580
1 1/4	1.660	1.380	.140	.785
1 1/2	1.900	1.610	.145	.939
2	2.375	2.067	.154	1.262
2 1/2	2.875	2.469	.203	2.002
3	3.500	3.068	.216	2.617
3 1/2	4.000	3.548	.226	3.147
4	4.500	4.026	.237	3.729
5	5.563	5.047	.258	5.051
6	6.625	6.065	.280	6.556
8	8.625	7.981	.322	9.867
10	10.750	10.020	.365	14.000
12	*	12.750	.375	17.140

*12 Ft. Length.

**ALCOA
ALUMINUM EXTRUSIONS
ARCHITECTURAL SHAPES**

ANGLES

Die No.	Alloy	Length Feet	Cut and Dimensions Page	Die No.	Alloy	Length Feet	Cut and Dimensions Page
79 Ser.	6063-T5	16	198	5137	6063-T5	16	198
472	6063-T5	16	198	6746	6063-T5	16	198
895	6063-T5	16	198	6844	6063-T5	16	198
1312	6063-T5	16	198	7201	6063-T5	16	198
1943	6063-T5	16	198	7385	6063-T5	16	198
1944	6063-T5	16	198	7613	6063-T5	16	198

CHANNELS

Die No.	Alloy	Length Feet	Cut and Dimensions Page	Die No.	Alloy	Length Feet	Cut and Dimensions Page
1940	6063-T5	20	198	4533	6063-T5	16	198
2105	6063-T5	16	198	4542	6063-T5	16	198
2335	6063-T5	16	198	5527	6063-T5	20	198
2388	6063-T5	16	198	5714	6063-T5	16	198
2715	6063-T5	16	198	6594	6063-T5	16	198
2748	6063-T5	16	198	7484	6063-T5	16	198
2749	6063-T5	16	198	8449	6063-T5	16	198
3507	6063-T5	20	198	8997	6063-T5	16	198
3547	6063-T5	16	198	17146	6063-T5	16	198
3619	6063-T5	16	199	22266	6063-T5	20	198
3776	6063-T5	16	198	22819	6062-T5	24	199
4286	6063-T5	20	198	40517	6062-T5	22	198
4300	6063-T5	20	198				

GLAZING SECTIONS

Die No.	Alloy	Length Feet	Cut and Dimensions Page	Die No.	Alloy	Length Feet	Cut and Dimensions Page
5390	6063-T5	16	200	5391	6063-T5	16	201

BRASS
COPPER

WEIGHTS
DATA

**ALCOA
ALUMINUM EXTRUSIONS
ARCHITECTURAL SHAPES.**

COPINGS AND GRAVEL STOPS

Die No.	Alloy	Length Feet	Cut And Dimensions Page	Die No.	Alloy	Length Feet	Cut And Dimensions Page
39258	6063-T42	½	207	66611	6063-T42	9'10½"	203
39259	6063-T42	9'11½"	207	68755	6063-T42	9'11½"	203
42058	6063-T42	9'11½"	207	69177	6063-T42	9'10½"	203
42059	6063-T42	9'11½"	207	79587	6063-T42	9'11½"	208
42060	6063-T42	½	206	79588	6063-T42	9'11½"	209
42061	6063-T42	½	207	79589	6063-T42	9'11½"	208
42062	6063-T42	½	207	79590	6063-T42	9'11½"	208
42063	6063-T42	9'11½"	206	79591	6063-T42	9'11½"	208
66588	6063-T42	9'11½"	203	79592	6063-T42	9'11½"	209
66589	6063-T42	½	206				

TEES

Die No.	Alloy	Length Feet	Cut And Dimensions Page	Die No.	Alloy	Length Feet	Cut And Dimensions Page
853 Ser.	6062-T6	22	200	18307	6063-T5	16	199
1257	6063-T5	16	199	18308	6063-T5	16	199
4716	6063-T5	16	199	18906	6063-T5	16	199
5951	6063-T5	16	199	25055	6063-T5	16	199
7030	6063-T5	16	199				

THRESHOLDS

Die No.	Alloy	Length Feet	Cut And Dimensions Page	Die No.	Alloy	Length Feet	Cut And Dimensions Page
10346	6063-T5	16½	204	20999	6063-T5	16½	204
10347	6063-T5	16½	204	26638	6063-T5	16½	204
10351	6063-T5	16½	204	38649	6063-T5	16½	204
10352	6063-T5	16½	204	38651	6063-T5	16½	204
10353	6063-T5	16½	204	38653	6063-T5	16½	204
19047	6063-T5	16½	204	38654	6063-T5	16½	204
19048	6063-T5	16½	204	38658	6063-T5	16½	204
19049	6063-T5	16½	204				

TRIM MOULDINGS

Die No.	Alloy	Length Feet	Cut And Dimensions Page	Die No.	Alloy	Length Feet	Cut And Dimensions Page
10	6063-T42	16	202	650	6063-T42	16	201
63	6063-T42	16	202	661	6063-T42	16	202
74	Ser. 6063-T42	16	201	787	6063-T42	16	202
141	6063-T42	16	201	1001	6063-T42	16	201
251	6063-T42	16	202	1122	6063-T42	16	201
363	6063-T42	16	201	1445	6063-T42	16	202
510	6063-T42	16	201	1843	6063-T42	16	201

ZEEES

Die No.	Alloy	Length Feet	Cut And Dimensions Page	Die No.	Alloy	Length Feet	Cut And Dimensions Page
771-C	6062-T6	22	199	23787	6063-T5	16	199
7088	6062-T6	22	200				

**ALCOA
ALUMINUM EXTRUSIONS**

ARCHITECTURAL SHAPES

WINDOW SILLS

Die No.	Alloy	Length Feet	Cut And Dimensions Page	Die No.	Alloy	Length Feet	Cut And Dimensions Page
26593	6063-T42	20	208	54686	6063-T42	20	205
37734	6063-T42	20	202	54687	6063-T42	20	205
37735	6063-T42	20	202	54688	6063-T42	20	205
37736	6063-T42	20	202	54689	6063-T42	20	205
37737	6063-T42	20	202	54690	6063-T42	20	205
37738	6063-T42	20	202	54691	6063-T42	20	205
37739	6063-T42	20	202	54692	6063-T42	20	205
54684	6063-T42	20	205	54693	6063-T42	20	205
54685	6063-T42	20	205	SA-100 Anchor Clips for AA Sills			

MISCELLANEOUS

Die No.	Alloy	Length Feet	Cut And Dimensions Page
4477	6063-T5	16	207

**ALCOA
ALUMINUM EXTRUSIONS**

TRUCK BODY SHAPES

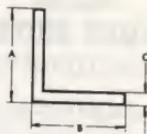
Die No.	Application	Alloy	Length Feet	Cut And Dimensions Page
892	Channel	6062-T6	22	199
2296	Channel	6062-T6	24	199
2880	Corner Post	6063-T6	16	198
45875	Corner Post	6062-T6	16	205
45879	Door Post	6062-T6	24	205
627	Drip Moulding	6063-T42	16	202
668	Drip Moulding	6063-T42	16	202
22819	Floor Bolster	6062-T6	24	199
46943	Flooring Dry Freight	6063-T6	30-32-35	206
56250	Flooring	6063-T6	30-32-35	206
	Refrigerated Freight	6063-T6	24	200
9004	Floor Splice	6062-T6	24	200
6699	H Beam	6062-T6	24	200
45873	Lintel	6063-T6	22-24-26	203
45878	Lintel	6063-T6	22-24-26	203
8606	Roof Rail	6062-T6	22	200
45874	Roof Rail	6062-T6	22-24-26	205
4619	Rub Rail	6062-T6	24	200
45877	Rub Rail	6063-T6	16	199
8604	Side Post	6062-T6	22	200
24531	Side Post	6062-T6	24	200
45876	Side Post	6062-T6	24	200
54603	Side Post	6063-T6	16	200
66582	Side Post	6063-T6	16	200
45872	Sills	6062-T6	22-24-26	205
10758	Slat	6062-T6	22	200
26936	Snap Moulding	6063-T6	22	204
26937	Snap Moulding	6063-T6	22	204

**ALCOA
ALUMINUM SOLDER AND FLUX**

Grade	
804	1/8" Dia. 1# Spools
64	1 oz. bottles
64	1 lb. cans

BRASS COPPER

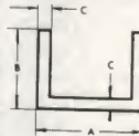
WEIGHTS
DATA



ANGLES—EQUAL AND UNEQUAL LEGS, SHARP CORNERS

Section number	A inches	B inches	C inches	Est. weight per foot, pounds	Factor
1944	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{3}{16}$	.116	19
1312	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{16}$	.070	28
79-H	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{16}$	.131	15
1943	$\frac{1}{2}$	1	$\frac{3}{16}$	.158	19
7201	$\frac{1}{2}$	1	$\frac{1}{16}$	.206	15
895	$\frac{1}{2}$	$1\frac{1}{4}$	$\frac{1}{16}$	.244	14
79-O	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{16}$	.168	15
472	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{16}$	.108	28
79-A	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{16}$	.206	14
7385	$\frac{3}{8}$	1	$\frac{1}{16}$	.244	14
5137	$\frac{3}{8}$	$1\frac{1}{2}$	$\frac{1}{16}$	.319	14
79-M	1	1	$\frac{1}{16}$	.145	28
79-G	1	1	$\frac{1}{16}$	.281	14
79-B	1	1	$\frac{3}{16}$	.408	10
7613	1	$1\frac{1}{2}$	$\frac{1}{16}$	.356	14
6844	1	2	$\frac{1}{16}$	.431	14
79-T	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{1}{16}$	.356	14
79-P	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{3}{16}$	.519	10
6746	$1\frac{1}{4}$	$3\frac{1}{2}$	$\frac{1}{16}$	.694	14
79-V	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{1}{16}$	.431	14
79-N	$1\frac{1}{2}$	$1\frac{1}{2}$	$\frac{3}{16}$	.633	9
79-Y	$1\frac{1}{2}$	$1\frac{3}{4}$	$\frac{1}{16}$	.506	14
79-X	2	2	$\frac{1}{16}$	.581	14
79-Q	2	2	$\frac{3}{16}$	.857	9
79-E	2	2	$\frac{1}{16}$	1.124	7
2880	$2\frac{1}{4}$	$5\frac{1}{4}$	$\frac{1}{16}$	1.106	14

Listed, pages 195, 197



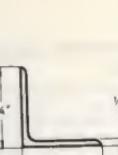
CHANNELS, SHARP CORNERS

Section number	A inches	B inches	C inches	Est. weight per foot, pounds	Factor
2335	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{16}$	.150	15
2749	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{16}$	.148	19
8997	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{16}$	.263	14
4533	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{16}$	.244	14
2715	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{16}$	.187	15
3547	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{16}$	.300	14
1940	1	$\frac{1}{2}$	$\frac{1}{16}$	.263	14
7484	1	1	$\frac{1}{16}$	.413	14
4286	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{16}$	.300	14
4542	$1\frac{1}{4}$	$1\frac{1}{4}$	$\frac{1}{16}$	.526	14
3507	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{16}$	.251	19
4300	$1\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{16}$	.337	14
8449	$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{16}$	.374	14
2105	$1\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{16}$	.450	14
5714	$1\frac{1}{4}$	1	$\frac{1}{16}$	.524	14
2388	2	$\frac{1}{2}$	$\frac{1}{16}$	.413	14
5527	2	1	$\frac{1}{16}$	.564	14
22266	2.100	.550	.100	.360	17
2748	$2\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{16}$	.563	14
40517	$2\frac{1}{2}$	$1\frac{1}{2}$	$\frac{1}{16}$	.787	14
6594	3	$\frac{1}{2}$	$\frac{1}{16}$	.563	14
3776	3	1	$\frac{1}{16}$	.713	14
17146	5	2	$\frac{3}{16}$	1.940	9

Listed, page 195

DETROIT

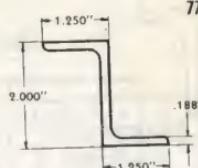
T
Mail Bo
13400



EST. WT. PER FT.—106 LBS.
FACTOR 27

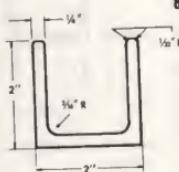
Listed, page 188

78K



EST. WT. PER FT.—928 LBS.
FACTOR 9

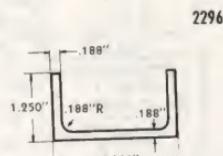
Listed, page 196



EST. WT. PER FT.—1.667 LBS.
FACTOR 7

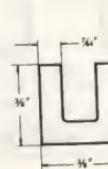
Listed, page 197

892



EST. WT. PER FT.—1.031 LBS.
FACTOR 9

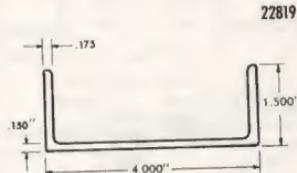
Listed, page 196



EST. WT. PER FT.—.120 LBS.
FACTOR 17

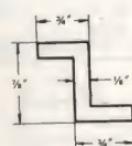
Listed, page 195

3619



EST. WT. PER FT.—1.286 LBS.
FACTOR 10

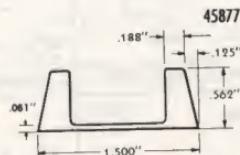
Listed, pages 195, 199



EST. WT. PER FT.—.319 LBS.
FACTOR 14

Listed, page 196

23787



EST. WT. PER FT.—.424 LBS.
FACTOR 11

Listed, page 197

TEES SHARP ANGLES, SHARP CORNERS

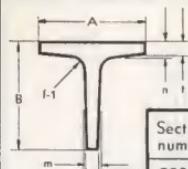
Section number	A inches	B inches	t-1 inches	t-2 inches	Est. weight per foot, pounds	Factor
18307	3/4	3/4	1/8	1/8	206	15
4716	3/4	1 1/4	1/8	1/8	280	14
7030	3/8	1 1/4	3/8	1/8	328	13
1257	1	9/16	1/8	1/8	319	9
18308	1	3/4	1/8	1/8	244	14
25055	1	1	1/8	1/8	281	14
5951	1 1/4	3/4	1/8	1/8	300	14
18906	2	3/4	1/8	1/8	.394	14



Listed, page 196

BRASS COPPER

WEIGHTS
DATA

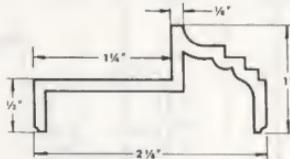


TEES
TAPER STEM AND FLANGES, ROUNDED ANGLES,
SHARP CORNERS

Section number	A, inches	B, inches	t, inch	n, inch	m, inch	f-1, inch	Est. weight per foot, pounds	Factor
853-F	1	1	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{1}{8}$	.320	12
853-B	1 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{1}{8}$	.450	12
853-N	1 $\frac{1}{2}$	1 $\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{1}{8}$	.628	8
853-K	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	.700	7
853-G	1 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	.890	6

Listed, pages 188, 196

5390

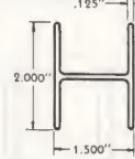


EST. WT. PER FT.—.528 LBS.

FACTOR 14

Listed, page 195

6699

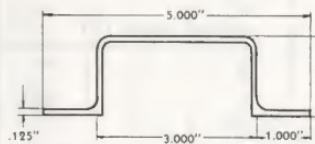


EST. WT. PER FT.—.788 LBS.

FACTOR 13

Listed, page 197

4619

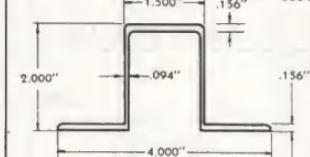


EST. WT. PER FT.—1.157 LBS.

FACTOR 13

Listed, page 197

8604



EST. WT. PER FT.—1.163 LBS.

FACTOR 13

Listed, page 197

7088

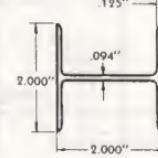


EST. WT. PER FT.—1.022 LBS.

FACTOR 9

Listed, page 196

8606

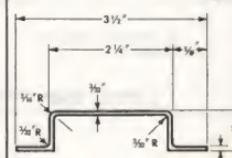


EST. WT. PER FT.—.797 LBS.

FACTOR 14

Listed, page 197

9004

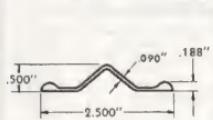


EST. WT. PER FT.—.533 LBS.

FACTOR 17

Listed, page 197

10758

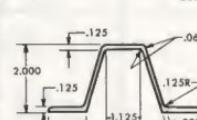


EST. WT. PER FT.—.369 LBS.

FACTOR 16

Listed, page 197

66582



EST. WT. PER FT.—.923

FACTOR 16

Listed, page 197

45876

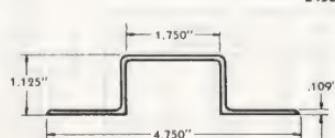


EST. WT. PER FT.—.498 LBS.

FACTOR 18

Listed, page 197

24531

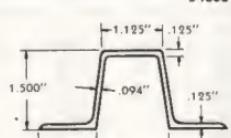


EST. WT. PER FT.—.898 LBS.

FACTOR 15

Listed, page 197

54603



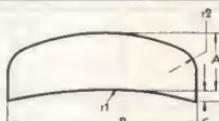
EST. WT. PER FT.—.784 LBS.

FACTOR 15

Listed, page 197

DETROIT

Mail 1
134

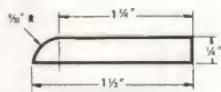


74

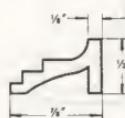
Section number	A	B	C	r1	r2	Est. weight per foot	Factor
74C	$\frac{3}{16}$	$\frac{1}{2}$	.019	$\frac{1}{2}$	$\frac{3}{16}$	.086	14
74A	$\frac{3}{16}$	$\frac{5}{8}$	.019	$\frac{5}{8}$	$\frac{3}{16}$	.107	14
74B	$\frac{3}{16}$	$\frac{3}{4}$	.020	$\frac{3}{4}$	$\frac{3}{16}$	.128	13
74H	$\frac{3}{16}$	$\frac{7}{8}$	.019	$\frac{7}{8}$	$\frac{3}{16}$	.137	14
74Q	$\frac{3}{16}$	1	.020	1	$\frac{3}{16}$	.152	13
74E	$\frac{1}{4}$	$\frac{7}{8}$	.025	$\frac{7}{8}$	$\frac{1}{4}$	.192	10
74D	$\frac{1}{4}$	1	.025	$1\frac{1}{4}$	$1\frac{3}{16}$	.228	10
74F	$\frac{1}{4}$	$1\frac{1}{4}$	.025	$1\frac{1}{4}$	$\frac{1}{4}$	.257	10
74P	$\frac{1}{4}$	2	.025	4	$\frac{1}{4}$	.418	9

Listed, page 196

141



5391

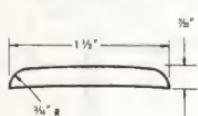
EST. WT. PER FT.—.431 LBS.
FACTOR 8

Listed, page 196

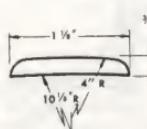
EST. WT. PER FT.—.209 LBS.
FACTOR 14

Listed, page 195

363



510

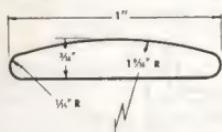
EST. WT. PER FT.—.356 LBS.
FACTOR 9

Listed, page 196

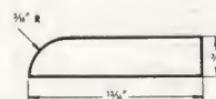
EST. WT. PER FT.—.212 LBS.
FACTOR 12

Listed, page 196

650



1001

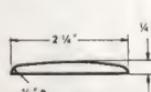
EST. WT. PER FT.—.191 LBS.
FACTOR 11

Listed, page 196

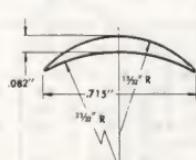
EST. WT. PER FT.—.174 LBS.
FACTOR 11

Listed, page 196

1122



1843

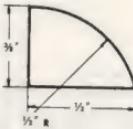
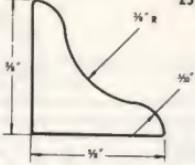
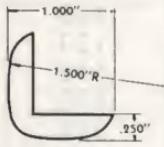
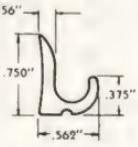
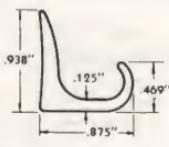
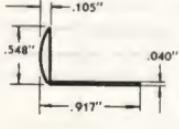
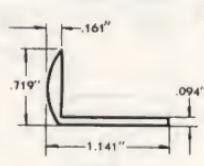
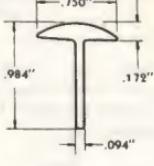
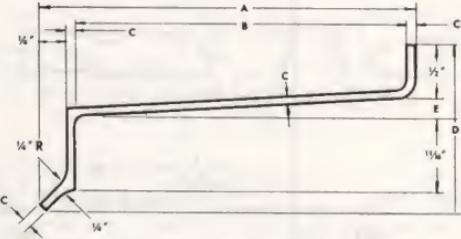
EST. WT. PER FT.—.558 LBS.
FACTOR 8

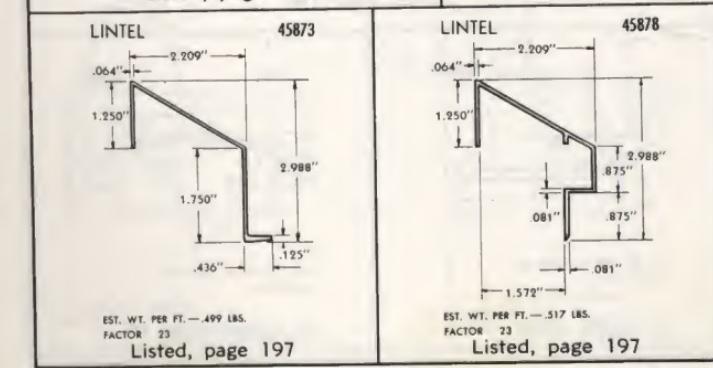
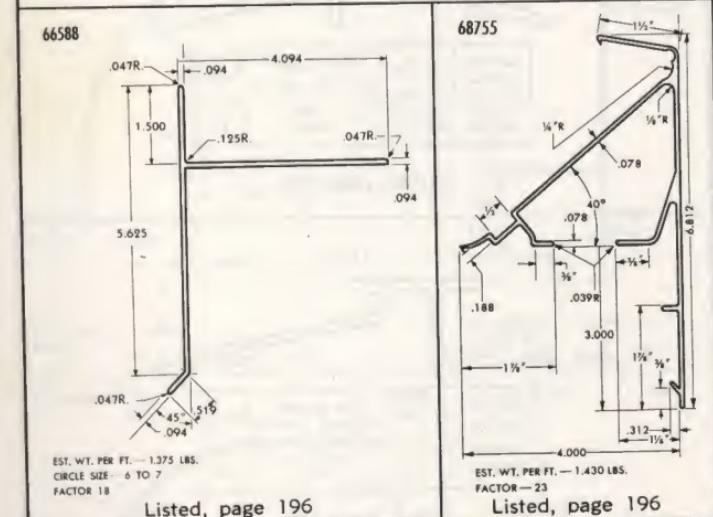
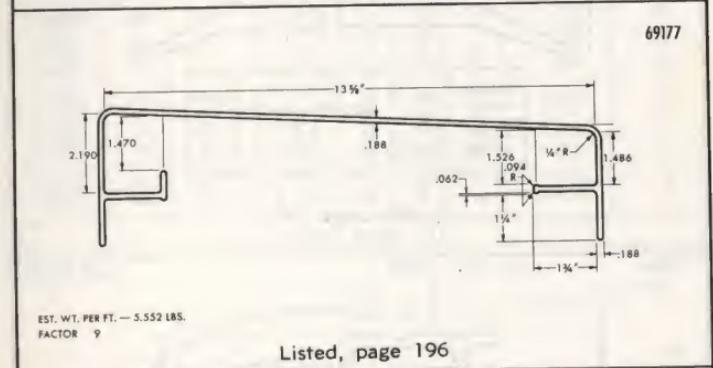
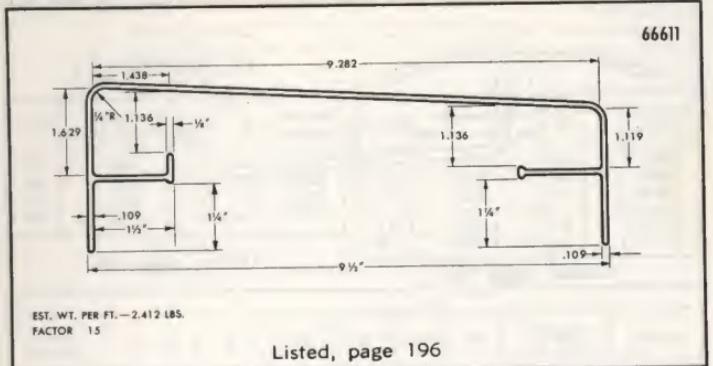
Listed, page 196

EST. WT. PER FT.—.058 LBS.
FACTOR 27

Listed, page 196

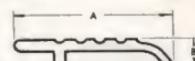
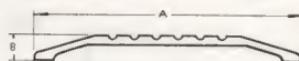
BRASS
COPPERWEIGHTS
DATA

 <p>EST. WT. PER FT.—.168 LBS. FACTOR 9 Listed, page 196</p>	 <p>EST. WT. PER FT.—.228 LBS. FACTOR 10 Listed, page 196</p>																																																															
 <p>EST. WT. PER FT.—.433 LBS. FACTOR 8 Listed, page 196</p>	 <p>EST. WT. PER FT.—.184 LBS. FACTOR 15 Listed, page 197</p>																																																															
 <p>EST. WT. PER FT.—.307 LBS. FACTOR 13 Listed, page 197</p>	 <p>EST. WT. PER FT.—.093 LBS. FACTOR 31 Listed, page 196</p>																																																															
 <p>EST. WT. PER FT.—.206 LBS. FACTOR 17 Listed, page 196</p>	 <p>EST. WT. PER FT.—.188 LBS. FACTOR 16 Listed, page 196</p>																																																															
 <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Section number</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>Est. weight per foot, pounds</th> <th>Factor</th> </tr> </thead> <tbody> <tr> <td>37734</td> <td>3 1/8</td> <td>3</td> <td>3/2</td> <td>1 1/8</td> <td>3/4</td> <td>3/4</td> <td>.524</td> <td>18</td> </tr> <tr> <td>37735</td> <td>3 1/8</td> <td>3 1/2</td> <td>3/2</td> <td>1 1/8</td> <td>3/2</td> <td>3/4</td> <td>.574</td> <td>18</td> </tr> <tr> <td>37736</td> <td>4 1/8</td> <td>4</td> <td>3/2</td> <td>1 1/8</td> <td>1/4</td> <td>3/4</td> <td>.636</td> <td>18</td> </tr> <tr> <td>37737</td> <td>4 1/8</td> <td>4 1/2</td> <td>3/2</td> <td>1 1/8</td> <td>3/4</td> <td>3/4</td> <td>.691</td> <td>18</td> </tr> <tr> <td>37738</td> <td>5 1/8</td> <td>5</td> <td>3/2</td> <td>1 1/8</td> <td>3/4</td> <td>3/4</td> <td>.746</td> <td>18</td> </tr> <tr> <td>37739</td> <td>5 1/8</td> <td>5 1/2</td> <td>3/2</td> <td>1 1/8</td> <td>1/2</td> <td>3/4</td> <td>.804</td> <td>18</td> </tr> </tbody> </table> <p>Listed, page 197</p>	Section number	A	B	C	D	E	F	Est. weight per foot, pounds	Factor	37734	3 1/8	3	3/2	1 1/8	3/4	3/4	.524	18	37735	3 1/8	3 1/2	3/2	1 1/8	3/2	3/4	.574	18	37736	4 1/8	4	3/2	1 1/8	1/4	3/4	.636	18	37737	4 1/8	4 1/2	3/2	1 1/8	3/4	3/4	.691	18	37738	5 1/8	5	3/2	1 1/8	3/4	3/4	.746	18	37739	5 1/8	5 1/2	3/2	1 1/8	1/2	3/4	.804	18	<p>DETROIT Twinbro Mail Box 148 13400 Mt.</p>
Section number	A	B	C	D	E	F	Est. weight per foot, pounds	Factor																																																								
37734	3 1/8	3	3/2	1 1/8	3/4	3/4	.524	18																																																								
37735	3 1/8	3 1/2	3/2	1 1/8	3/2	3/4	.574	18																																																								
37736	4 1/8	4	3/2	1 1/8	1/4	3/4	.636	18																																																								
37737	4 1/8	4 1/2	3/2	1 1/8	3/4	3/4	.691	18																																																								
37738	5 1/8	5	3/2	1 1/8	3/4	3/4	.746	18																																																								
37739	5 1/8	5 1/2	3/2	1 1/8	1/2	3/4	.804	18																																																								



BRASS COPPER

WEIGHTS DATA

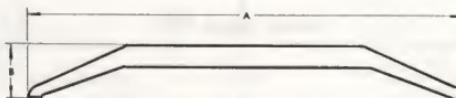


Section number	A	B	Est. weight per foot, pounds	Factor
38651	3	1/2	.721	10
19047	4	1/2	.829	11
19048	5	1/2	1.102	10
19049	6	1/2	1.296	11
26638	7	1/2	1.777	9

Section number	A	B	Est. weight per foot, pounds	Factor
10346	1 1/4	1 1/4	.180	16
38653	1 1/4	1 1/4	.194	18
10347	1 1/2	1 1/4	.232	16
38654	1 1/2	1 1/4	.224	18

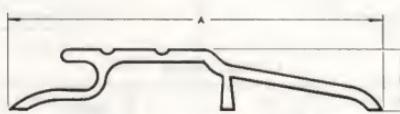
Listed, page 196

Listed, page 196



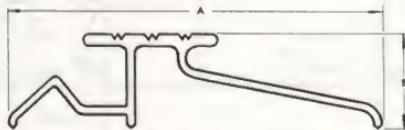
Section number	A	B	Est. weight per foot, pounds	Factor
10351	3	1/4	.476	13
10352	4 1/4	1/2	.894	10

Listed, page 196



Section number	A	B	Est. weight per foot, pounds	Factor
10353	3 1/2	5/16	.595	15
38649	4 1/4	5/16	689	15

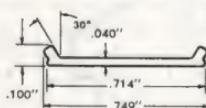
Listed, page 196



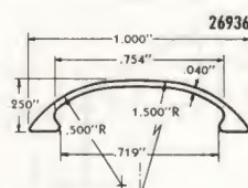
Section number	A	B	Est. weight per foot, pounds	Factor
20999	3 1/2	7/16	661	17
38658	4 1/4	7/16	760	16

Listed, page 196

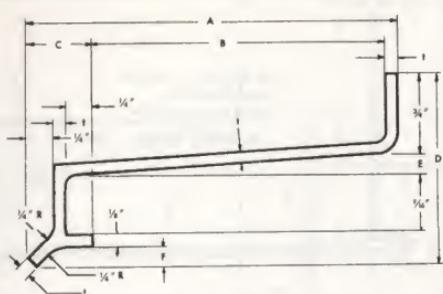
26937

EST. WT. PER FT. — .040 LBS.
FACTOR 41

Listed, page 197

EST. WT. PER FT. — .044 LBS.
FACTOR 36

Listed, page 197

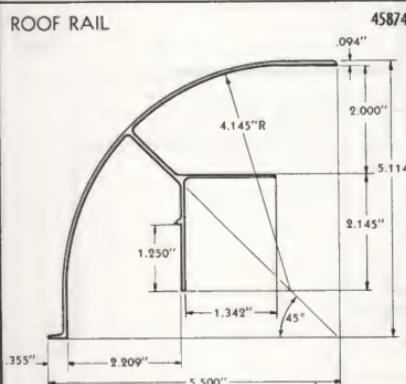


TYPE AA

Section number	A	B	C	D	E	F	t	Weight per foot	Factor
54684	3 1/2	2 3/4	5/8	1 13/16	3/16	3/16	1/8	.767	13
54685	4	3 1/4	5/8	1 27/32	7/32	3/16	1/8	.842	13
54686	4 1/2	3 3/4	5/8	1 1/8	1/4	3/16	1/8	.919	13
54687	5	4 1/4	5/8	1 29/32	9/32	3/16	1/8	.994	13
54688	5 1/2	4 3/4	5/8	1 15/16	5/16	3/16	1/8	1.067	13
54689	6	5 1/4	5/8	1 31/32	11/32	3/16	1/8	1.141	13
54690	6 1/4	5 3/4	5/8	2	3/8	3/16	5/32	1.529	11
54691	7 1/8	6 1/4	5/8	2 1/16	7/16	3/16	5/32	1.716	11
54692	8 1/8	7 1/4	11/16	2 5/32	13/32	1/4	3/16	2.189	9
54693	9 1/8	8 1/4	11/16	2 7/32	17/32	1/4	3/16	2.414	9

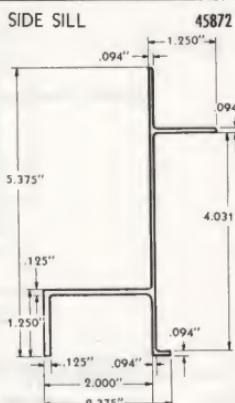
Listed, page 197

ROOF RAIL



45874

SIDE SILL



45872

EST. WT. PER FT.—1.566 LBS.

FACTOR 17

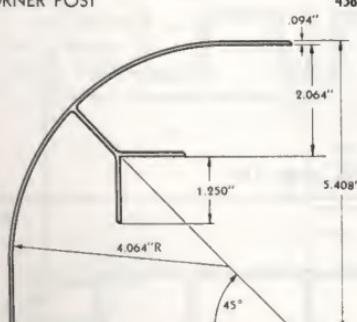
Listed, page 197

EST. WT. PER FT.—1.252 LBS.

FACTOR 16

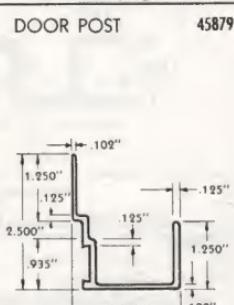
Listed, page 197

CORNER POST



45875

DOOR POST



45879

EST. WT. PER FT.—1.392 LBS.

FACTOR 18

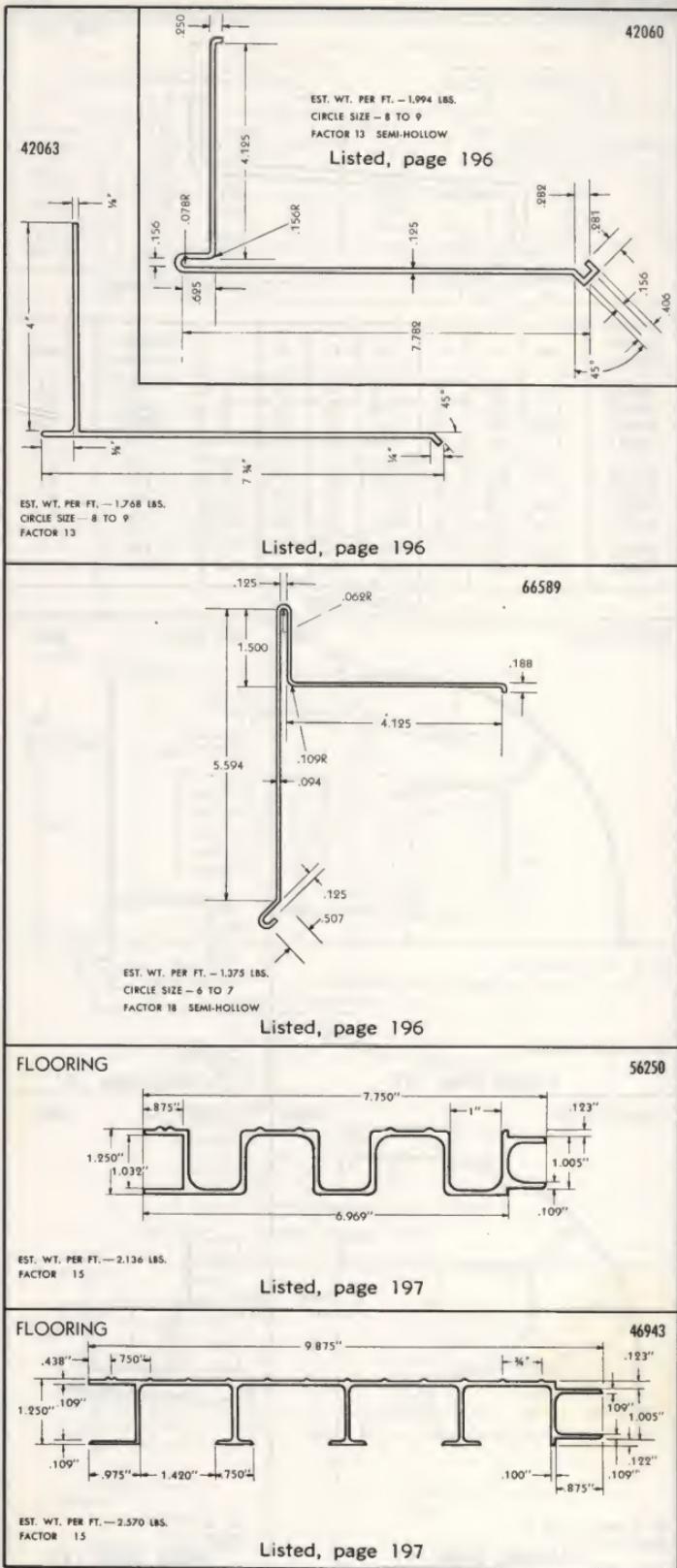
Listed, page 197

EST. WT. PER FT.—.760 LBS.

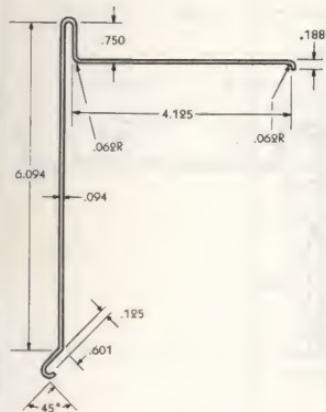
FACTOR 15

Listed, page 197

BRASS
COPPERWEIGHTS
DATA



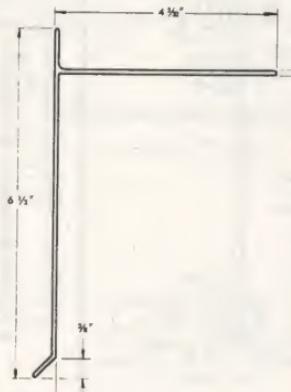
39258



EST. WT. PER FT. — 1.340 LBS.
CIRCLE SIZE — 7 TO 8
FACTOR 18 SEMI-HOLLOW

Listed, page 196

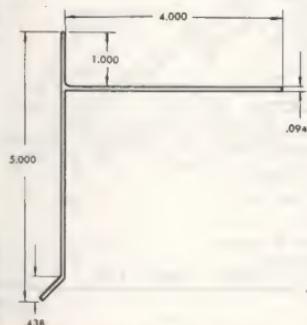
39259



EST. WT. PER FT. — 1.201 LBS.
CIRCLE SIZE — 7 TO 8
FACTOR 18

Listed, page 196

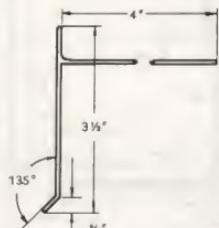
42058



EST. WT. PER FT. — 1.027 LBS.
CIRCLE SIZE — 6 TO 7
FACTOR 18

Listed, page 196

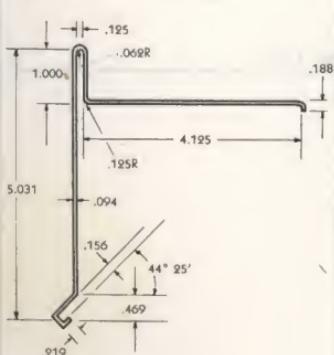
42059



EST. WT. PER FT. — .848 LBS.
CIRCLE SIZE — 5 TO 6
FACTOR 18

Listed, page 196

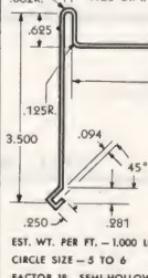
42061



EST. WT. PER FT. — 1.229 LBS.
CIRCLE SIZE — 6 TO 7
FACTOR 18 SEMI-HOLLOW

Listed, page 196

.062R ← .125 DIA.



EST. WT. PER FT. — 1.000 LBS.
CIRCLE SIZE — 5 TO 6
FACTOR 18 SEMI-HOLLOW

Listed, page 196

42062

4477

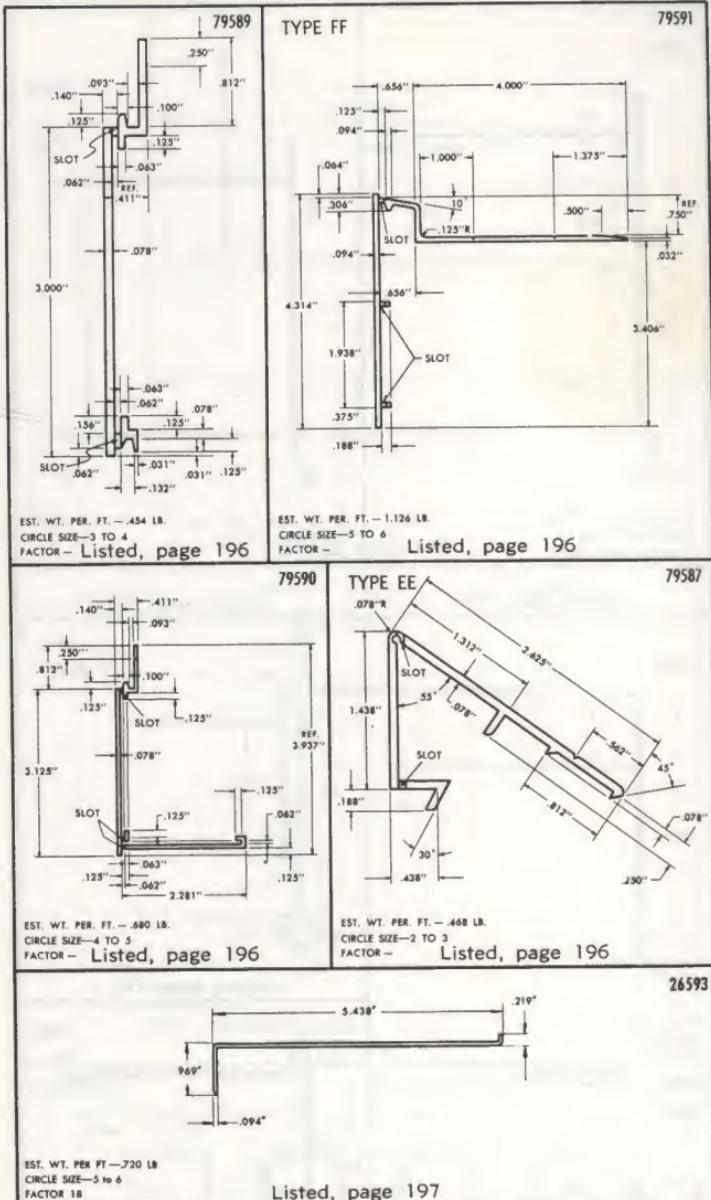


EST. WT. PER FT. — .228 LBS.
FACTOR 26 SEMI-HOLLOW

Listed, page 197

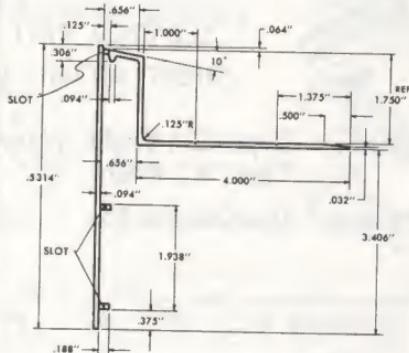
BRASS COPPER

WEIGHTS
DATA



TYPE FF

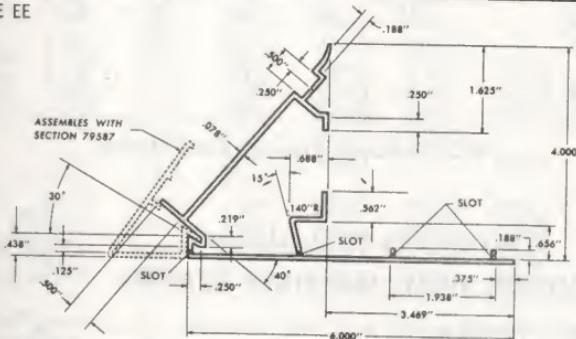
79592



EST. WT. PER. FT.—1.350 LB.
CIRCLE SIZE—6 TO 7
FACTOR— Listed, page 196

TYPE EE

79588



EST. WT. PER. FT. — 1.367 LB.
CIRCLE SIZE—6 TO 7
FACTOR —

Listed, page 196

**BRASS
COPPER**

WEIGHTS DATA



ALCOA 2024-T4 ALUMINUM

Type
"Z"SLOTTED PAN HEAD
SHEET METAL SCREWSType
"A"Finish: Type "Z", Bright, Waxed
Type "A", Bright

Packed: One Gross to Box

Diameters	#4	#6	#7	#8	#10	#12	#14
Lengths							
$\frac{1}{4}''$	AZ	AZ	Z				
$\frac{5}{16}''$	Z	Z	Z	Z	Z		
$\frac{3}{8}''$	AZ	AZ	AZ	AZ	Z	Z	
$\frac{1}{2}''$	AZ	AZ	AZ	AZ	AZ	Z	Z
$\frac{5}{8}''$		AZ	AZ	AZ	AZ	Z	Z
$\frac{3}{4}''$		AZ	AZ	AZ	AZ	AZ	AZ
$\frac{7}{8}''$			Z	Z		Z	Z
1"				AZ	AZ	A	AZ
$1\frac{1}{4}''$				AZ		A	A
$1\frac{1}{2}''$				AZ	A	A	A

"AZ" Indicates Type in Sizes Stocked.

ALCOA 2024-T4 ALUMINUM
PHILLIPS HEAD MACHINE SCREWS

Finish: Bright

Threads: National Coarse,
Class 2 - Free FitHeads: Flat - Round - Oval
"F" "R" "O"

Packed: One Gross to Box

Diameter	6	8	10	10	$\frac{1}{4}''$	$\frac{5}{16}''$	$\frac{3}{8}''$
Threads	32	32	24	32	20	18	16
Diam.	.138"	.164"	.190"	.190"	.250"	.312"	.375"

Lengths

$\frac{1}{4}''$	FRO	FRO					
$\frac{5}{16}''$	FRO	FRO	FRO	FRO			
$\frac{3}{8}''$	FRO	FRO	FRO	FR	FRO		
$\frac{7}{16}''$	FRO	FRO	R	R	R		
$\frac{1}{2}''$	FRO	FRO	FRO	FR	FRO	FR	
$\frac{5}{8}''$	FRO	FRO	FRO	FRO	FRO	FR	
$\frac{3}{4}''$	FRO	FRO	FRO	FRO	FR	FR	
$\frac{7}{8}''$	FRO	FR	FR	FR	FR	R	FR
1"	FRO	FRO	FRO	FRO	FRO	FR	FR
$1\frac{1}{8}''$	R	R	R	R			
$1\frac{1}{4}''$	FRO	FRO	FRO	FR	FRO	FR	FR
$1\frac{1}{2}''$		FRO	FRO	FR	FRO	FR	FR
$1\frac{3}{4}''$			FRO	FR	FRO	R	
2"			FRO	FR	FRO	FR	FR

"FRO" Indicates Flat, Round or Oval Head Style in Sizes Stocked.

DETROIT
Twin
Mail Box 1
13400 M

ALCOA 2024-T4 ALUMINUM

SLOTTED HEAD MACHINE SCREWS

Finish: Bright

Threads: National Coarse,
Class 2 - Free FitHeads: Flat - Round - Oval
"F" "R" "O"

Packed: One Gross to Box



Diameter	6	8	10	12	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "
Threads Per In.	32	32	24	24	20	18	16
Diam.	.138"	.164"	.190"	.216"	.250"	.312"	.375"

Lengths

$\frac{1}{4}$ "	FRO	FRO	FRO				
$\frac{5}{16}$ "	FRO	FRO	FRO				
$\frac{3}{8}$ "	FRO	FRO	FRO				
$\frac{7}{16}$ "	FRO	FRO	FRO	FRO	FRO		
$\frac{1}{2}$ "	FRO	FRO	FRO	FRO	FRO	FRO	
$\frac{5}{8}$ "	FRO	FRO	FRO	FRO	FRO	FRO	
$\frac{3}{4}$ "	FRO	FRO	FRO	FRO	FRO	FRO	
$\frac{7}{8}$ "	FRO	FRO	FRO	FRO	FRO	FRO	
1"	FRO	FRO	FRO	FRO	FRO	FRO	
$1\frac{1}{8}$ "	FRO	FRO	FRO				
$1\frac{1}{4}$ "	FRO	FRO	FRO	FRO	FRO	FRO	
$1\frac{1}{2}$ "	FRO	FRO	FRO	FRO	FRO	FRO	
$1\frac{3}{4}$ "	FRO	FRO	FRO	FRO	FRO	FRO	
2"	FRO	FRO	FRO	FRO	FRO	FRO	

"FRO" Indicates Flat, Round or Oval Head Style in Sizes Stocked.

Machine Screws 2" and under are rolled threaded to the head.

Machine Screws 2" long are threaded $1\frac{3}{4}$ ".

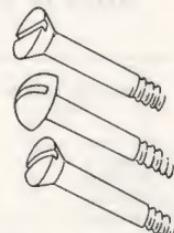
*Choice of two threads—State which is wanted.

ALCOA 2024-T4 ALUMINUM
SLOTTED HEAD WOOD SCREWS

Finish: Bright

Threads: American National
StandardHeads: Flat - Round - Oval
"F" "R" "O"

Packed: One Gross to Box



Diameter of Screw	#4	#5	#6	#7	#8	#9	#10	#12	#14
Decimal	.110	.124	.137	.150	.164	.177	.189	.216	.242

Lengths

$\frac{3}{8}$ "	FR								
$\frac{1}{2}$ "	FRO	FRO	FRO	FRO	FRO				
$\frac{5}{8}$ "	FRO	FRO	FRO	FRO	FRO				
$\frac{3}{4}$ "	FRO	FRO	FRO	FRO	FRO	FRO			
$\frac{7}{8}$ "	F	FR	FRO	FRO	FRO	F	FRO		
1"	FRO								
$1\frac{1}{8}$ "			FRO	FRO	FRO	FRO	FRO	FRO	F
$1\frac{1}{4}$ "			FRO						
$1\frac{1}{2}$ "			FRO						
$1\frac{3}{4}$ "				FRO		FR	FRO	FR	
2"				FRO		FRO	FRO	FRO	
$2\frac{1}{2}$ "						FR	FR		
3"							FR		

"FRO" Indicates Flat, Round or Oval Head Style in Sizes Stocked.

ALCOA 2024-T4 ALUMINUM

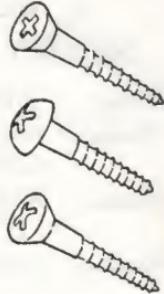
PHILLIPS HEAD WOOD SCREWS

Finish: Bright

Threads: American National Standard

Heads: Flat - Round - Oval
"F" "R" "O"

Packed: One Gross to Box



Diameter of Screw	#4	#5	#6	#7	#8	#9	#10	#12	#14
Decimal	.110	.124	.137	.150	.164	.177	.189	.216	.242

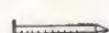
Lengths

3/8"	FR								
1/2"	FRO	O	FRO		FR				
5/8"	FRO	FO	FRO	FR	FRO				
3/4"	FRO	FRO	FRO	FR	FRO	R	FR		
7/8"		FRO	FRO		FRO		FR		
1"	O	FRO	FRO	FRO	FRO	FR	FRO	FRO	
1 1/4"			FRO	OR	FRO	FR	FRO	FRO	F
1 1/2"			FRO	F	FRO	FR	FRO	FRO	FO
1 3/4"					FR		FR	FRO	F
2"					FR		FRO	FRO	FRO
2 1/2"							FR	FR	
3"								F	

"FRO" Indicates Flat, Round or Oval Head Style in Sizes Stocked.



ALUMINUM NAILS

BOXED IN QUANTITY OF NAILS INDICATED PER BOX
FOR COVERAGE SHOWN

Size and Type of Nail	No. Nails per Pound	No. Nails per Box	Gauge	Head Size	Coverage
7/8" Roofing	663	860	10	7/16"	500 sq. ft. Roll Roofing
1" Roofing	605	980	10	7/16"	3 sqs. Sq. Tab Shingles
1 1/4" Roofing	491	980	10	7/16"	3 sqs. Sq. Tab Shingles
1 1/2" Roofing	417	980	10	7/16"	3 sqs. Sq. Tab Shingles
6d Wood Sdg.—Sinker Hd.	566	575	11 1/4	17/64"	500 bd. ft. 1 1/2"x6" Bvl. Sdg.
7d Wood Sdg.—Sinker Hd.	468	575	11 1/2	17/64"	500 bd. ft. 3/4"x8" Bvl. Sdg.
8d Wood Sdg.—Sinker Hd.	319	575	10 1/2	19/64"	500 bd. ft. 3/4"x8" Bvl. Sdg.
10d Wood Sdg.—Sinker Hd.	215	290	9 1/2	5/16"	250 bd. ft. 3/4"x8" Bvl. Sdg.
1 1/4" Asbestos Siding	1230	885	13	3/16"	5 sqs. Asb. Sdg. Face Nlg.
1 3/4" Asbestos Siding	877	885	12 1/2	3/16"	5 sqs. Asb. Sdg. Face Nlg.
1 1/4" Asbestos Shingle	785	885	11 1/2	5/16"	5 sqs. Asb. Sdg. Cned. Nlg.
1 3/4" Asbestos Shingle	659	885	11 1/2	5/16"	5 sqs. Asb. Sdg. Cned. Nlg.
1 3/4" Asbestos Shingle	544	885	11 1/2	5/16"	5 sqs. Asb. Sdg. Cned. Nlg.
1 1/4" Cedar Shake	1300	1680	13 1/2	5/32"	3 sqs. Single Course
1 3/4" Cedar Shake	724	1680	12 1/2	5/32"	3 sqs. Double Course
7/8" Standard Shingle	1313	2600	12 1/2	9/32"	General Purpose
3d Standard Shingle	1009	2000	12 1/2	9/32"	Barn Batts, Joist Lining, etc.
1 1/4" Rock Lath	988	2666	12 1/2	5/16"	35 square yards
1 3/4" Rock Lath	939	2666	12 1/2	5/16"	35 square yards
1 1/2" Rock Lath	725	1900	12	5/16"	25 square yards
1 3/4" Roofing w/w/attach.*	293	525	9 1/4	7/16"	10 sqs. aluminum roofing
2" Roofing w/w/attach.*	264	525	9 1/4	7/16"	10 sqs. aluminum roofing
2 1/2" Roofing w/w/attach.*	203	525	8 7/8	7/16"	10 sqs. aluminum roofing

*With neoprene washers attached.

DETROIT
Twins
Mail Box
13400 N

**ALCOA 2024-T4 ALUMINUM
HEXAGON HEAD MACHINE BOLTS**

Finish: Machine
(Not Washer Faced)

Packed: 100 Pieces to Box
(Except those marked *,
which are 50 to box)



Diameter	$\frac{1}{4}''$	$\frac{5}{16}''$	$\frac{3}{8}''$	$\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{3}{4}''$
Threads	20	18	16	13	11	10

Lengths

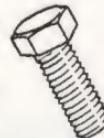
$\frac{3}{4}''$	S	S			*S	
1"	S	S	S	S	*S	
$1\frac{1}{4}''$	S	S	SS	S	*S	
$1\frac{1}{2}''$	S	S	SS	S	*S	
$1\frac{3}{4}''$	SS	S	SS	S	*S	
2"	S	S	S	S	*S	
$2\frac{1}{4}''$	S	S	S	S	*S	
$2\frac{1}{2}''$	S	S	S	S	*S	
3"	S	S	S	S	*S	
$3\frac{1}{2}''$			S	S	*S	
4"			S	S	*S	

"S" Indicates Sizes Stocked.

**ALCOA 2024-T4 ALUMINUM
HEXAGON HEAD CAP SCREWS**

Finish: Bright

Washer Faced



Packed: 100 Pieces to Box

Diameter	$\frac{1}{4}''$	$\frac{5}{16}''$	$\frac{3}{8}''$	$\frac{1}{2}''$	$\frac{5}{8}''$
Threads	20	18	16	13	11

Lengths

$\frac{1}{2}''$	S	S				
$\frac{5}{8}''$	SS	S				
$\frac{3}{4}''$	SS	SS	S	S	S	
1"	SS	SS	SS	S	S	
$1\frac{1}{4}''$	SS	SS	SS	S	S	
$1\frac{1}{2}''$	SS	SS	SS	S	S	
2"	S	S	SS	SS	SS	
$2\frac{1}{2}''$			S	S	S	
3"				S	S	

"S" Indicates Sizes Stocked.

**ALCOA 2024-T4 ALUMINUM
HEXAGON CAP (ACORN) NUTS**



Finish: Bright

Threads: National Coarse,
Class 2 - Free Fit

Packed: 100 Pieces to Box

Screw or Bolt Size	Threads	Width Across Flats	Thickness
6	32	$\frac{5}{16}''$	$\frac{9}{32}''$
8	32	$\frac{5}{16}''$	$\frac{9}{32}''$
10	24	$\frac{3}{8}''$	$\frac{11}{32}''$
10	32	$\frac{3}{8}''$	$\frac{11}{32}''$
$\frac{1}{4}''$	20	$\frac{7}{16}''$	$\frac{3}{8}''$
$\frac{5}{16}''$	18	$\frac{1}{2}''$	$\frac{13}{32}''$
$\frac{3}{8}''$	16	$\frac{5}{8}''$	$\frac{1}{2}''$

BRASS
COPPER

WEIGHTS
DATA



ALCOA 2024-T4 ALUMINUM



WING NUTS

Finish: Bright

Threads: National Coarse,
Class 2 - Free Fit

Packed: 100 Pieces to Box

Screw or Bolt Size	Threads	Wing Spread	Thickness
6	32	11/16"	5/32"
8	32	11/16"	5/32"
10	24	1"	7/32"
10	32	1"	7/32"
12	24	1"	7/32"
1/4"	20	11/16"	1/4"
5/16"	18	15/16"	9/32"
3/8"	16	137/64"	23/64"

ALCOA 2024-T4 ALUMINUM
HEXAGON MACHINE SCREW NUTS

Finish: Bright

Threads: National Coarse,
Class 2 - Free Fit

Packed: One Gross to Box

Screw Size	Threads per Inch	Width Across Flats	Thickness
4	40	1/4"	3/32"
6	32	5/16"	7/64"
8	32	11/32"	1/8"
10	24	3/8"	1/8"
10	32	3/8"	1/8"
12	24	7/16"	5/32"
1/4"	20	7/16"	3/16"
5/16"	18	9/16"	7/32"
3/8"	16	5/8"	1/4"

ALCOA 6061-T6 ALUMINUM
HEXAGON BOLT NUTS

Finish: Bright

Threads: National Coarse,
Class 2 - Free Fit

Packed: 100 Pieces to Box

Bolt Size	Threads per Inch	Width Across Flats	Thickness
* 1/4"	20	7/16"	13/64"
5/16"	18	9/16"	1/4"
3/8"	16	5/8"	5/16"
1/2"	13	13/16"	27/64"
5/8"	11	1"	17/32"
3/4"	10	1 1/8"	41/64"

ALCOA

FLAT ALUMINUM WASHERS

Army-Navy Drawing AN960

Machine Finish—1000 Pieces Per Box

1100-H18 Regular Series

Size	O.D.	I.D.	Thickness	Part No.
No. 3	$\frac{1}{4}$ "	$\frac{7}{64}$ "	$\frac{1}{32}$ "	AN960-A3
No. 4	$\frac{5}{16}$ "	$\frac{1}{8}$ "	$\frac{1}{32}$ "	AN960-A4
No. 6	$\frac{3}{8}$ "	$\frac{9}{64}$ "	$\frac{1}{32}$ "	AN960-A6
No. 8	$\frac{3}{8}$ "	$1\frac{1}{64}$ "	$\frac{1}{32}$ "	AN960-A8
No. 10	$\frac{7}{16}$ "	$1\frac{13}{64}$ "	$\frac{1}{16}$ "	AN960-A10
$\frac{1}{4}$ "	$\frac{1}{2}$ "	$1\frac{17}{64}$ "	$\frac{1}{16}$ "	AN960-A416
$\frac{5}{16}$ "	$\frac{9}{16}$ "	$2\frac{1}{64}$ "	$\frac{1}{16}$ "	AN960-A516
$\frac{3}{8}$ "	$\frac{5}{8}$ "	$2\frac{5}{64}$ "	$\frac{1}{16}$ "	AN960-A616
$\frac{7}{16}$ "	$\frac{3}{4}$ "	$2\frac{9}{64}$ "	$\frac{1}{16}$ "	AN960-A716
$\frac{1}{2}$ "	$\frac{7}{8}$ "	$3\frac{3}{64}$ "	$\frac{1}{16}$ "	AN960-A816

1100-H18 Light Series

No. 3	$\frac{1}{4}$ "	$\frac{7}{64}$ "	$\frac{1}{64}$ "	AN960-A3L
No. 4	$\frac{5}{16}$ "	$\frac{1}{8}$ "	$\frac{1}{64}$ "	AN960-A4L
No. 6	$\frac{3}{8}$ "	$\frac{9}{64}$ "	$\frac{1}{64}$ "	AN960-A6L
No. 8	$\frac{3}{8}$ "	$1\frac{1}{64}$ "	$\frac{1}{64}$ "	AN960-A8L
No. 10	$\frac{7}{16}$ "	$1\frac{13}{64}$ "	$\frac{1}{64}$ "	AN960-A10L
$\frac{1}{4}$ "	$\frac{1}{2}$ "	$1\frac{17}{64}$ "	$\frac{1}{64}$ "	AN960-A416L
$\frac{5}{16}$ "	$\frac{9}{16}$ "	$2\frac{1}{64}$ "	$\frac{1}{64}$ "	AN960-A516L
$\frac{3}{8}$ "	$\frac{5}{8}$ "	$2\frac{5}{64}$ "	$\frac{1}{64}$ "	AN960-A616L
$\frac{7}{16}$ "	$\frac{3}{4}$ "	$2\frac{9}{64}$ "	$\frac{1}{64}$ "	AN960-A716L
$\frac{1}{2}$ "	$\frac{7}{8}$ "	$3\frac{3}{64}$ "	$\frac{1}{64}$ "	AN960-A816L

2024-T4 Alclad Regular Series

No. 3	$\frac{1}{4}$ "	$\frac{7}{64}$ "	$\frac{1}{32}$ "	AN960-D3
No. 4	$\frac{5}{16}$ "	$\frac{1}{8}$ "	$\frac{1}{32}$ "	AN960-D4
No. 6	$\frac{3}{8}$ "	$\frac{9}{64}$ "	$\frac{1}{32}$ "	AN960-D6
No. 8	$\frac{3}{8}$ "	$1\frac{1}{64}$ "	$\frac{1}{32}$ "	AN960-D8
No. 10	$\frac{7}{16}$ "	$1\frac{13}{64}$ "	$\frac{1}{16}$ "	AN960-D10
$\frac{1}{4}$ "	$\frac{1}{2}$ "	$1\frac{17}{64}$ "	$\frac{1}{16}$ "	AN960-D416
$\frac{5}{16}$ "	$\frac{9}{16}$ "	$2\frac{1}{64}$ "	$\frac{1}{16}$ "	AN960-D516
$\frac{3}{8}$ "	$\frac{5}{8}$ "	$2\frac{5}{64}$ "	$\frac{1}{16}$ "	AN960-D616
$\frac{7}{16}$ "	$\frac{3}{4}$ "	$2\frac{9}{64}$ "	$\frac{1}{16}$ "	AN960-D716
$\frac{1}{2}$ "	$\frac{7}{8}$ "	$3\frac{3}{64}$ "	$\frac{1}{16}$ "	AN960-D816

BRASS
COPPER

WEIGHTS
DATA

INDEX — BRASS & COPPER SECTION

	Page		Page
Rod and Bar		Sheets, Strip and Rolls	
Free Cutting Brass		Copper	
Round.....	217	Soft—Coils.....	238
Half Round.....	217	Half Hard—coils and flats.....	236
Hexagon.....	218	Soft Sheets	
Square.....	219	C. R. Annld.....	237
Rectangular.....	219-221	Soft Sheets—Hot Rolled.....	236
Naval Brass		Cold Rolled Sheets.....	237
Round.....	221	Leadcoated Sheets.....	237
Hexagon.....	222	Thru-Wall Flashings.....	237
Copper		Reglets.....	237
Round		Phosphor Bronze Strip.....	235
(Electrolytic).....	222	Nickel Silver Strip.....	238-239
Round (Tellurium)			
(Free Cutting).....	224		
Square.....	222		
Rectangular.....	223		
Rectangular (Tellurium).....	224		
Round Edge Bus Bar.....	223		
Phosphor Bronze			
Round.....	226		
Hexagon.....	226		
Rectangular Rd. Edge.....	226		
Commercial Bronze			
Round.....	225	Commercial Bronze	
Square.....	224	Round.....	243
Rectangular.....	225	Square.....	243
Aluminum Bronze (Everdur)		Rectangular.....	243
Round.....	225	Hexagon.....	243
Nickel Silver		Red Brass Pipe.....	244
Round.....	227	Copper	
Manganese Bronze		Half Hard.....	245-246
Rectangular.....	224	Soft (open end).....	246
Brass Angles.....	227	Refrigeration Tube.....	247
Sheets, Strip and Rolls		Automotive Tube.....	247
Yellow Brass		Pipe.....	245
Soft-Rolls.....	228	Copper Water Tube.....	248
Soft-Flats.....	229		
Quarter Hard.....	229		
Half Hard—Rolls.....	230		
Half Hard—Flats.....	230		
Hard—Flats.....	231		
Shim Brass—Rolls.....	231		
Spring Temper.....	232		
Leaded Sheet Brass.....	232		
Manganese Bronze.....	232		
Muntz Metal Sheet.....	233		
85% Red Brass			
Soft.....	233		
Quarter Hard.....	234		
90% Commercial Bronze			
Soft.....	234		
Half Hard.....	234		
Wire			
Brass			
Spring.....	249		
Half Hard.....	249		
Soft.....	249		
Phosphor Bronze.....	250		
Copper.....	251		
Nickel Silver.....	251		
Phosphor Bronze Bushings			
Tubular.....	252-253		
Solids.....	253		
Tolerances	305-312		
Physical and Chemical Data	303-304		
Government Specs	313-314		

ROUND BRASS ROD**FREE CUTTING QUALITY****12 FT. STANDARD LENGTHS**

ASTM B16—SAE 72—AMS—4610F

QQ B611A—Comp. B QQ B626—Comp. 22

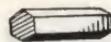
Mil—C895A

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Page 305.

Sizes in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Sizes in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
1/16	.0113	.1356	15/16	2.54	30.48
3/32	.0254	.3048	31/32	2.72	32.64
7/64	.0346	.4152	+1	2.89	34.68
1/8	.0452	.5424	1 1/32	3.08	36.96
9/64	.0572	.6864	1 1/16	3.27	39.24
5/32	.0706	.8472	1 1/8	3.66	43.92
.162	.0757	.9084	1 3/16	4.08	48.96
11/64	.0855	1.026	1 1/4	4.52	54.24
3/16	.102	1.224	1 5/16	4.98	59.76
13/64	.119	1.428	1 3/8	5.47	65.64
7/32	.138	1.656	1 7/16	5.98	71.76
15/64	.159	1.998	1 1/2	6.51	78.12
1/4	.181	2.172	1 9/16	7.06	84.72
17/64	.204	2.448	1 5/8	7.64	91.68
9/32	.229	2.748	11 1/16	8.24	98.88
19/64	.255	3.060	1 3/4	8.86	106.32
5/16	.283	3.396	11 1/16	9.51	114.12
21/64	.312	3.744	1 7/8	10.2	122.40
11/32	.342	4.104	1 15/16	10.9	130.80
23/64	.374	4.488	2	11.6	139.20
+3/8	.407	4.884	2 1/16	12.3	147.60
25/64	.441	5.292	2 1/8	13.1	157.20
13/32	.478	5.736	2 1/4	14.6	175.20
27/64	.515	6.180	2 3/8	16.3	195.60
7/16	.554	6.648	2 1/2	18.1	217.20
29/64	.594	7.128	2 5/8	19.9	238.80
15/32	.636	7.632	2 3/4	21.9	262.80
+1/2	.723	8.676	2 7/8	23.9	286.80
17/32	.817	9.804	3	26.0	312.00
9/16	.915	10.980	3 1/8	28.3	339.60
19/32	1.02	12.24	3 1/4	30.6	367.20
5/8	1.13	13.56	3 1/2	35.4	424.80
21/32	1.25	15.00	3 5/8	38.0	456.00
11/16	1.37	16.44	3 3/4	40.7	488.40
23/32	1.49	17.88	4	46.3	555.60
+3/4	1.63	19.56	4 1/8	49.2	590.00
25/32	1.77	21.24	4 1/2	58.6	703.26
13/16	1.91	22.92	*5	72.3	867.60
27/32	2.06	24.72	*6	104.0	1248.00
7/8	2.22	26.64			
29/32	2.38	28.56			

*5" and 6" are MUNTZ METAL ROD
†Also carried in ONE HALF rounds

BRASS
COPPERWEIGHTS
DATA



HEXAGON BRASS ROD



FREE CUTTING QUALITY

12 FT. STANDARD LENGTHS

ASTM B16—SAE 72—AMS—4610F
QQ B611A—Comp. B QQ B626—Comp. 22
MIL C 895 A

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Page 305.

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
3/32	.028	.336
1/8	.0499	.5988
5/32	.0779	.9348
3/16	.112	1.364
7/32	.153	1.836
15/64	.175	2.100
1/4	.199	2.388
9/32	.252	3.024
5/16	.312	3.744
11/32	.377	4.524
3/8	.449	5.388
13/32	.527	6.324
7/16	.611	7.332
1/2	.798	9.576
9/16	1.01	12.12
5/8	1.25	15.00
11/16	1.51	18.12
3/4	1.80	21.60
13/16	2.11	25.32
7/8	2.44	29.28
15/16	2.80	33.60
1	3.19	38.28
1 1/16	3.60	43.20
1 1/8	4.04	48.48
1 3/16	4.50	54.00
1 1/4	4.99	59.88
1 5/16	5.50	66.00
1 3/8	6.03	72.36
1 7/16	6.59	79.08
1 1/2	7.18	86.16
1 9/16	7.79	93.48
1 5/8	8.43	101.16
1 11/16	9.09	109.08
1 3/4	9.77	117.24
1 13/16	10.50	126.00
1 7/8	11.20	134.40
1 15/16	12.00	144.00
2	12.80	153.60
2 1/8	14.40	172.80
2 1/4	16.20	194.40
2 3/8	18.00	216.00
2 1/2	19.90	238.80
2 3/4	24.10	289.20
3	28.70	344.40
3 1/4	33.70	404.40
3 1/2	39.10	469.20

**SQUARE BRASS ROD****FREE CUTTING QUALITY****12 FT. STANDARD LENGTHS**

ASTM B16—SAE 72—AMS—4610F
 QQ B611A—Comp. B QQ B626—Comp. 22
 Mil—C-895A

Chemical Analysis and Physical Properties, Page 303.
 Tolerances, Pages 306-308.

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
3/32	.0324	.3888	13/16	2.43	29.16
1/8	.0576	.691	7/8	2.82	33.84
5/32	.0899	1.078	15/16	3.24	38.88
3/16	.130	1.560	1	3.68	44.16
7/32	.176	2.112	1 1/8	4.66	55.92
1/4	.230	2.760	1 1/4	5.76	69.12
9/32	.291	3.492	1 3/8	6.97	83.64
5/16	.360	4.320	1 1/2	8.29	99.48
3/8	.518	6.216	1 5/8	9.73	116.76
13/32	.608	7.296	1 3/4	11.3	135.60
7/16	.705	8.460	2	14.7	176.40
1/2	.921	11.052	2 1/4	18.7	224.40
9/16	1.17	14.04	2 1/2	23.0	276.00
5/8	1.44	17.28	2 3/4	27.9	334.80
11/16	1.74	20.88	3	33.2	398.40
3/4	2.07	24.84			

**RECTANGULAR BRASS ROD****HARD DRAWN****12 FT. STANDARD LENGTHS**

ASTM B36 Alloy 8—SAE 70 Grade C
 QQ B611a—Comp. C Mil—C-895A

Chemical Analysis and Physical Properties, Page 303.
 Tolerances, Pages 306-308.

Thickness Inches	Width Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
1/16X	1/4	.0574	.6888
	5/16	.0717	.8604
	3/8	.0861	1.0332
	1/2	.115	1.380
	5/8	.143	1.716
	3/4	.172	2.064
	7/8	.201	2.412
	1	.230	2.760
	2	.460	5.520
3/32X	1/4	.0861	1.0332
	1 1/4	.430	5.16
	1 1/2	.516	6.192

See following page.


RECTANGULAR BRASS ROD

HARD DRAWN—FREE CUTTING
12 FT. STANDARD LENGTHS

ASTM B16—SAE 72—AMS—4610F
QQ B611A—Comp. B QQ B626—Comp. 22
Mil—C-895A

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 306-308.

Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
1/8X	1/4	.115	1.38	1/4X	3	2.763	33.16
	5/16	.143	1.72		3 1/2	3.22	38.64
	3/8	.172	2.06		4	3.68	44.16
	7/16	.201	2.41		5	4.60	55.80
	1/2	.230	2.76		6	5.53	66.36
	5/8	.287	3.44	5/16X	3/8	.432	5.18
	3/4	.344	4.13		1/2	.576	6.91
	7/8	.402	4.82		5/8	.735	8.82
1	.459	5.51			3/4	.863	10.36
1 1/8	.518	6.22			7/8	1.030	12.36
1 1/4	.576	6.91			1	1.151	13.81
1 1/2	.691	8.29			1 1/4	1.500	18.00
1 3/4	.806	9.67			1 1/2	1.727	20.72
2	.918	11.02			1 3/4	2.059	24.71
2 1/2	1.151	13.81			2	2.303	27.64
3	1.382	16.58			3	3.531	42.37
4	1.836	22.03		3/8X	1/2	.691	8.29
3/16X	3/8	.258	3.10		5/8	.863	10.36
	1/2	.344	4.13		3/4	1.036	12.43
	5/8	.432	5.18		7/8	1.209	14.51
	3/4	.518	6.22		1	1.382	16.58
	7/8	.604	7.25		1 1/4	1.727	20.72
1	.691	8.29			1 1/2	2.072	24.86
1 1/4	.863	10.36			1 3/4	2.420	29.04
1 1/2	1.036	12.43			2	2.763	33.16
1 3/4	1.209	14.51			2 1/4	3.178	38.14
2	1.382	16.58			2 1/2	3.450	41.40
3	2.073	24.87			3	4.140	49.68
4	2.764	33.17			4	5.530	66.36
1/4X	3/8	.345	4.14	7/16X	1	1.612	19.34
	1/2	.461	5.53	1/2X	5/8	1.151	13.81
	5/8	.576	6.91		3/4	1.382	16.56
	3/4	.691	8.29		7/8	1.612	19.34
	7/8	.806	9.67		1	1.842	22.10
1	.921	11.05			1 1/4	2.303	27.63
1 1/4	1.151	13.81			1 1/2	2.763	33.12
1 1/2	1.381	16.57			2	3.680	44.16
1 3/4	1.612	19.34			2 1/2	4.600	55.80
2	1.842	22.10			3	5.530	66.36
2 1/4	2.074	24.89			4	7.360	88.32
2 1/2	2.302	27.62			6	11.060	132.76

(Continued on following page)



RECTANGULAR BRASS ROD



HARD DRAWN—FREE CUTTING

12 FT. STANDARD LENGTHS

ASTM B16—SAE 72—AMS 4610F
 QQ B611A—Comp B QQ B626—Comp 22
 MIL—C895A

Chemical Analysis and Physical Properties, Page 303.
 Tolerances, Pages 306-308.

(Continued from preceding page)

Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
$\frac{5}{8}x$	$\frac{3}{4}$	1.726	20.76	$\frac{3}{4}x$	2	5.526	66.36
	$\frac{7}{8}$	2.020	24.24		$2\frac{1}{2}$	6.908	74.64
	1	2.303	27.60		3	8.280	99.36
	$1\frac{1}{4}$	2.878	34.56	$1\frac{1}{2}x$	$1\frac{1}{4}$	4.605	55.26
	$1\frac{1}{2}$	3.451	41.40		$1\frac{1}{2}$	5.530	69.60
	2	4.601	55.20		2	7.360	93.00
	3	6.910	82.92		3	11.050	133.20
	4	9.202	110.42		4	14.740	186.00
$\frac{3}{4}x$	1	2.764	33.12	$1\frac{1}{4}x$	3	13.813	165.76
	$1\frac{1}{4}$	3.454	41.40	$1\frac{1}{2}x$	2	11.060	132.92
	$1\frac{1}{2}$	4.144	49.68		3	16.590	199.08
				$2x$	4	29.480	353.76

ROUND
NAVAL BRASS ROD

HARD TEMPER

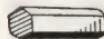
12 FT. STANDARD LENGTHS

ASTM B21 Alloy A—SAE 73 AMS 4612C
 QQ B636A—Grade A—QQ B638 Comp. 1
 Mil—N994B Comp. A

Chemical Analysis and Physical Properties, Page 303.
 Tolerances, Page 305.
 Identification Color: Red.

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
$\frac{1}{8}$	.0447	.536	$1\frac{1}{16}$	3.230	38.76
$\frac{3}{16}$	.101	1.21	$1\frac{1}{8}$	3.630	43.56
$\frac{1}{4}$	.137	1.64	$1\frac{3}{16}$	4.040	48.48
$\frac{1}{4}$	.179	2.15	$1\frac{1}{4}$	4.480	53.76
$\frac{9}{32}$	.227	2.724	$1\frac{5}{16}$	4.940	59.28
$\frac{5}{16}$	.280	3.36	$1\frac{3}{8}$	5.420	65.04
$1\frac{1}{32}$	.337	4.06	$1\frac{7}{16}$	5.92	71.04
$\frac{3}{8}$	.403	4.80	$1\frac{1}{2}$	6.45	77.40
$1\frac{1}{32}$	.473	5.67	$1\frac{1}{16}$	6.99	83.88
$\frac{7}{16}$	.548	6.60	$1\frac{5}{8}$	7.57	90.84
$1\frac{5}{32}$	.630	7.56	$1\frac{3}{4}$	8.77	105.24
$\frac{1}{2}$	.716	8.64	$1\frac{7}{8}$	10.10	121.20
$\frac{9}{16}$	.907	10.92	2	11.50	138.00
$\frac{5}{8}$	1.120	13.44	$2\frac{1}{8}$	12.90	154.80
$1\frac{1}{16}$	1.350	16.20	$2\frac{1}{4}$	14.50	174.00
$\frac{3}{4}$	1.610	19.32	$2\frac{3}{8}$	16.20	194.40
$1\frac{3}{16}$	1.890	22.62	$2\frac{1}{2}$	17.90	214.80
$\frac{7}{8}$	2.190	26.28	3	25.80	309.60
$1\frac{5}{16}$	2.520	30.24	$*3\frac{1}{2}$	35.10	421.20
1	2.870	33.44			

*This Item Specially Straightened Shafting.



HEXAGON NAVAL BRASS ROD†



HARD TEMPER

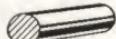
12 FT. STANDARD LENGTHS

ASTM B21 Alloy A—SAE 73—AMS 4612C
QQ B636A—Grade A—QQ B638 Comp 1
Mil—N994B—Comp A
Identification Color—Red

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
3/8	.444	5.32	1	3.16	37.92
7/16	.605	7.25	1 1/8	4.00	48.00
1/2	.789	9.48	1 1/4	4.94	59.28
9/16	1.00	12.00	1 3/8	5.97	71.64
5/8	1.23	14.76	1 1/2	7.11	85.32
11/16	1.49	17.88	1 5/8	8.34	100.00
3/4	1.78	21.36	1 3/4	9.68	116.16
7/8	2.42	29.04	1 7/8	11.10	132.00
1 5/16	2.78	33.36	2	12.60	151.00



ROUND COPPER ROD†



Electrolytic Tough Pitch

HARD DRAWN TEMPER

12 FT. STANDARD LENGTHS

ASTM B133 QQ C502A QQ C504

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
1/8	.0476	.576	1	3.04	36.48
3/16	.107	1.28	1 1/8	3.85	46.20
1/4	.190	2.28	1 1/4	4.76	57.12
5/16	.297	3.60	1 3/8	5.76	69.12
3/8	.428	5.16	1 1/2	6.85	82.20
7/16	.583	6.99	1 3/4	9.32	111.84
1/2	.761	9.12	2	12.2	146.40
9/16	.963	11.52	2 1/4	15.4	184.80
5/8	1.19	14.40	2 1/2	19.0	228.00
3/4	1.71	20.40	3	27.4	328.80
7/8	2.33	28.80	3 1/2	37.2	446.40
1 5/16	2.68	32.16	4	48.7	580.00
			4 1/2	61.5	738.00



SQUARE COPPER ROD†



Electrolytic Tough Pitch

HARD DRAWN TEMPER

12 FT. STANDARD LENGTHS

ASTM B133 QQ C502A QQ C504

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
1/4	.242	2.88	1	3.88	46.56
5/16	.379	4.56	1 1/4	6.06	72.72
3/8	.545	6.60	1 1/2	8.72	104.40
1/2	.969	11.60	1 3/4	11.90	144.00
5/8	1.51	18.00	2	15.50	186.00
3/4	2.18	26.16	3	34.90	420.00
7/8	2.97	35.76			

†Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 305-308.

BUS BAR COPPER

ELECTROLYTIC TOUGH PITCH

Hard Drawn—Square Edge

12 FT. STANDARD LENGTHS

*Stocked both Round and Square Edge

ASTM B133 and B187 QQ C502A and 504

Chemical Analysis and Physical Properties, Page 303.
Tolerances, pages 305-308.

Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
$\frac{1}{16}x$	$\frac{1}{2}$	.121	1.44	$\frac{1}{4}x$	6	5.810	69.72
	$\frac{5}{8}$	.151	1.80	$\frac{5}{16}x$	1	1.21	14.52
	$\frac{3}{4}$	.181	2.17		$1\frac{1}{2}$	1.816	21.79
	$\frac{7}{8}$	.211	2.53		2	2.420	29.04
1		.241	2.88	$\frac{3}{8}x$	$\frac{1}{2}$	.727	8.76
2		.481	5.76		*	$\frac{3}{4}$	1.090
$\frac{3}{32}x$	$\frac{3}{8}$	.136	1.63		*	1	1.454
	$\frac{1}{2}$	.182	2.18			$1\frac{1}{4}$	1.817
	$\frac{5}{8}$	.227	2.73			$1\frac{1}{2}$	2.180
	$\frac{3}{4}$	.273	3.28		2	2.907	34.92
1		.363	4.36		$2\frac{1}{2}$	3.630	43.56
$1\frac{1}{4}$		.454	5.45		3	4.360	52.22
$1\frac{1}{2}$		.545	6.64		4	5.910	70.80
$\frac{1}{8}x$	$\frac{1}{16}$	.212	2.54		5	7.27	86.24
	$\frac{1}{2}$	.241	2.88		6	8.720	104.64
	$\frac{9}{16}$	.273	3.28	$\frac{1}{2}x$	$\frac{3}{4}$	1.449	17.40
	$\frac{5}{8}$	.303	3.60		*	1	1.938
	$\frac{3}{4}$	.363	4.32			$1\frac{1}{4}$	2.400
	$\frac{7}{8}$	.424	5.08			$1\frac{1}{2}$	2.907
1		.485	5.88		2	3.860	46.56
$1\frac{1}{4}$		.604	7.32		$2\frac{1}{2}$	4.830	57.60
$1\frac{1}{2}$		.725	8.76		3	5.810	69.60
$1\frac{3}{4}$		.845	10.20		4	7.730	93.00
2		.969	11.64		5	9.660	116.16
$2\frac{1}{4}$		1.09	13.08		6	11.590	139.56
$2\frac{1}{2}$		1.211	14.52	$\frac{3}{4}x$	1	2.880	34.56
3		1.450	17.40		$1\frac{1}{4}$	3.620	43.44
4		1.929	23.16		$1\frac{1}{2}$	4.350	51.84
$\frac{5}{32}x$	$\frac{3}{4}$	.454	5.45		2	5.816	69.84
*	$1\frac{1}{4}$	.757	9.08		3	8.690	104.28
$\frac{3}{16}x$	$\frac{1}{2}$	.363	4.34		4	11.630	139.56
*	$\frac{9}{16}$	.409	4.91		6	17.40	208.80
*	$\frac{5}{8}$	.454	5.45	$1x$	$1\frac{1}{2}$	5.800	69.80
*	$\frac{3}{4}$	.545	6.60		2	7.730	93.00
*	1	.727	8.76		$2\frac{1}{2}$	9.660	115.20
	$1\frac{1}{4}$	.908	10.92		3	11.590	139.56
	$1\frac{1}{2}$	1.090	13.08		4	15.460	185.16
	$1\frac{3}{4}$	1.272	15.24		5	19.320	232.56
2		1.454	17.40		6	23.180	279.12
3		2.180	26.16		8	31.0	372.0
$\frac{1}{4}x$	*	$\frac{1}{2}$	.483	5.88	10	38.8	465.6
*		$\frac{5}{8}$	.604	7.32	3	14.497	173.96
*		$\frac{3}{4}$	.725	8.76	4	19.340	232.08
*		$\frac{7}{8}$	.845	10.20	6	29.11	349.3
*	1	.967	11.64	$1\frac{1}{2}x$	2	11.520	138.24
*	$1\frac{1}{4}$	1.211	14.52		$2\frac{1}{2}$	14.40	172.80
	$1\frac{1}{2}$	1.452	17.40		6	34.9	418.8
*	$1\frac{3}{4}$	1.696	20.40		10	58.2	698.4
*	2	1.938	23.28	$2x$	$2\frac{1}{2}$	19.200	230.40
	$2\frac{1}{4}$	2.160	25.92		3	23.2	278.4
	$2\frac{1}{2}$	2.462	29.56		4	30.720	368.64
3		2.907	34.92		5	38.640	463.68
$3\frac{1}{4}$		3.149	37.79		6	46.360	556.32
4		3.880	46.56	$2\frac{1}{2}x$	$3\frac{1}{2}$	33.840	406.08
5		4.850	58.20		6	58.080	696.96

ROUND TELLURIUM COPPER RODFREE CUTTING
HARD DRAWN TEMPER**12 FT. STANDARD LENGTHS**Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 305-308.
Identification Color: BLUE

Size in Inches	Weight Per Ft., Lbs.	Approx. Wt. 12' Bar	Size in Inches	Weight Per Ft., Lbs.	Approx. Wt. 12' Bar
$\frac{7}{32}$	.146	2.75	$1\frac{1}{8}$	3.85	46.2
$\frac{1}{4}$	.190	2.28	$1\frac{9}{16}$	4.29	51.4
$\frac{5}{16}$	.297	3.56	$1\frac{1}{4}$	4.76	57.1
$\frac{3}{8}$	.428	5.13	$1\frac{3}{8}$	5.76	69.1
$1\frac{13}{32}$	.502	6.02	$1\frac{1}{2}$	6.85	82.2
$7/16$	.583	7.00	$1\frac{5}{8}$	8.04	96.4
$1\frac{1}{2}$	.761	9.13	$1\frac{3}{4}$	9.32	111.8
$\frac{5}{8}$	1.19	14.2	2	12.20	146.4
$1\frac{1}{16}$	1.44	17.2	$2\frac{1}{4}$	15.36	184.3
$\frac{3}{4}$	1.71	20.5	$2\frac{1}{2}$	19.00	228.0
$\frac{7}{8}$	2.33	27.9	$2\frac{5}{8}$	20.93	251.1
1	3.04	36.4	$2\frac{3}{4}$	23.00	276.0
$1\frac{1}{16}$	3.44	41.2	3	27.35	328.2
			$3\frac{1}{2}$	37.20	446.40

**RECTANGULAR
TELLURIUM COPPER ROD**

FREE CUTTING

HARD DRAWN TEMPER

**12 FT. STANDARD LENGTHS**Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 305-308.
Identification Color: BLUE

Size in Inches	Weight per Ft., Lbs.	Approx. Wt. 12 Ft. Bar
$\frac{1}{2} \times \frac{3}{4}$	1.449	17.39
$1\frac{1}{4}$	2.400	28.80
$\frac{3}{4} \times 1\frac{1}{4}$	3.620	43.44

SQUARE 90-10 COMMERCIAL BRONZE ROD**12 FT. STANDARD LENGTHS**Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 305-308.
Identification Color: GREEN

Size in Inches	Weight Per Ft., Lbs.	Approx. Wt. 12' Bar
$\frac{1}{2}$	.954	11.4
$\frac{5}{8}$	1.491	17.9
$\frac{3}{4}$	2.144	25.7
1	3.827	45.9

RECTANGULAR MANGANESE BRONZE ROD**12 FT. STANDARD LENGTHS**

ASTM B138 Alloy A

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 305-308.
Identification Color: BLACK

Size in Inches	Weight Per Ft., Lbs.	Approx. Wt. 12' Bar	Size in Inches	Weight Per Ft., Lbs.	Approx. Wt. 12' Bar
$\frac{1}{4} \times 1\frac{1}{4}$	1.131	13.6	3	2.715	32.6
$1\frac{3}{4}$	1.584	19.0	$\frac{1}{4} \times 3\frac{1}{2}$	3.168	38.0
2	1.810	21.7	4	3.620	43.4
$2\frac{1}{4}$	2.036	24.4	$\frac{3}{8} \times 4$	5.440	65.3
$2\frac{1}{2}$	2.263	27.2			



RECTANGULAR 90-10 COMMERCIAL BRONZE ROD



12 FT. STANDARD LENGTHS

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 305-308.
Identification Color: GREEN

Size in Inches	Weight Per Ft., Lbs.	Approx. Wt. 12' Bar	Size in Inches	Weight Per Ft., Lbs.	Approx. Wt. 12' Bar
$\frac{1}{8} \times \frac{1}{2}$	.238	2.9	$\frac{1}{4} \times 1\frac{1}{4}$	1.191	14.3
$\frac{3}{8}$	.357	4.3	$1\frac{1}{2}$	1.429	17.1
1	.476	5.7	2	1.906	22.9
$1\frac{1}{2}$	.716	8.6	3	2.858	34.3
2	.952	11.4	$\frac{3}{8} \times 1\frac{1}{4}$	1.792	21.5
$\frac{3}{16} \times \frac{3}{4}$	.537	6.4	$1\frac{1}{2}$	2.144	25.7
1	.716	8.6	2	2.859	34.3
2	1.429	17.1	$\frac{1}{2} \times \frac{3}{4}$	1.429	17.15
$\frac{1}{8} \times \frac{1}{2}$	.477	5.73	$1\frac{1}{2}$	2.859	34.3
$\frac{3}{8}$	.716	8.6	2	3.812	45.7
1	.954	11.4	3	5.810	69.7



ROUND COMMERCIAL BRONZE ROD



Free Cutting—High Strength

12 FT. STANDARD LENGTHS

ASTM B140—Alloy B

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 305-308.
Identification Color—Green.

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
$\frac{1}{8}$	.0468	.564	$\frac{5}{8}$	1.170	14.04
$\frac{5}{32}$	.0734	.876	$1\frac{1}{16}$	1.417	17.04
$\frac{3}{16}$	.1060	1.32	$\frac{3}{4}$	1.695	20.16
$\frac{7}{32}$	.1430	1.68	$\frac{7}{8}$	2.310	27.48
$\frac{1}{4}$	.1880	2.28	1	3.005	36.00
$\frac{5}{16}$	.2940	3.60	$1\frac{1}{4}$	4.693	56.40
$\frac{3}{8}$	.4230	5.04	$1\frac{1}{2}$	6.77	81.24
$\frac{7}{16}$	.576	6.84	$1\frac{3}{4}$	9.18	110.16
$\frac{1}{2}$	.752	9.00	2	11.95	143.40
$\frac{9}{16}$	.952	11.40			



ROUND EVERDUR 1014 ROD



12 FT. STANDARD LENGTHS

QQ B666—Grade B QQ B663 Comp. 1
ASTM 150—Alloy 1 SAE 701B Option 2
Mil—B6946 & 15939(2) Comp 1

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Pages 305-308.
Identification Color—Orange.

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
$\frac{3}{16}$	.092	1.104	$1\frac{1}{16}$	1.230	14.76
$\frac{1}{4}$	.163	2.16	$\frac{3}{4}$	1.470	17.64
$\frac{5}{16}$	.259	3.11	$1\frac{3}{16}$	1.728	22.92
$\frac{3}{8}$	.3695	4.44	$\frac{7}{8}$	2.000	24.00
$1\frac{1}{32}$	.431	5.28	$1\frac{5}{16}$	2.304	30.48
$\frac{7}{16}$	.501	6.12	1	2.619	31.44
$1\frac{15}{32}$	.575	6.96	$1\frac{1}{8}$	3.315	39.84
$\frac{1}{2}$	.654	7.80	$1\frac{1}{4}$	4.092	49.08
$\frac{9}{16}$	.808	9.96	$1\frac{3}{8}$	4.951	59.52
$\frac{5}{8}$	1.023	13.20	1 $\frac{1}{2}$	5.690	70.68



ROUND PHOSPHOR BRONZE ROD

FREE CUTTING
12 FT. STANDARD LENGTHS

ASTM B139 Alloy B2—SAE 791

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Page 305.
Identification Color—White.

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
$\frac{3}{32}$	.0265	.324	$\frac{3}{4}$	1.696	20.40
$\frac{1}{8}$	.0471	.564	$\frac{13}{16}$	1.991	24.00
$\frac{5}{32}$	.0736	.888	$\frac{7}{8}$	2.309	27.72
$\frac{3}{16}$	.106	1.32	$\frac{15}{16}$	2.651	31.80
$\frac{7}{32}$	.145	1.80	1	3.016	36.24
$\frac{1}{4}$	.188	2.28	$1\frac{1}{16}$	3.405	40.92
$\frac{9}{32}$	.238	2.88	$1\frac{1}{8}$	3.817	45.84
$\frac{5}{16}$	.297	3.60	$1\frac{1}{4}$	4.712	56.52
$\frac{3}{8}$	.424	5.16	$1\frac{3}{8}$	5.702	68.52
$1\frac{1}{32}$	.497	6.00	$1\frac{1}{2}$	6.786	81.48
$\frac{7}{16}$	.577	6.96	$1\frac{5}{8}$	7.964	95.52
$\frac{1}{2}$	.754	9.00	$1\frac{3}{4}$	9.281	111.36
$\frac{9}{16}$	.954	11.52	2	12.06	144.72
$\frac{5}{8}$	1.178	14.16	$2\frac{1}{4}$	15.30	183.60
$1\frac{1}{16}$	1.425	17.16	$2\frac{1}{2}$	18.11	217.32



HEXAGON PHOSPHOR BRONZE ROD



FREE CUTTING
12 FT. STANDARD LENGTHS

ASTM B139 Alloy B2—SAE 791

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Page 305.
Identification Color—White.

Size in Inches	Weight per Ft. Pounds	Approx. Weight 12' Bar	Size in Inches	Weight per Ft. Pounds	Approx. Weight 12' Bar
$\frac{3}{16}$	.1169	1.44	$\frac{1}{2}$	.836	9.96
$\frac{1}{4}$	.2079	2.52	$\frac{9}{16}$	1.059	12.60
$\frac{5}{16}$	.3247	3.96	$\frac{5}{8}$	1.1308	15.60
$\frac{3}{8}$	.470	5.64	$\frac{3}{4}$	1.8707	22.44
$\frac{7}{16}$	.641	7.68	$\frac{7}{8}$	2.565	30.60
			1	3.349	39.96

ROUND EDGED PHOSPHOR BRONZE

GRADE A SPRING TEMPER
12 FT. STANDARD LENGTHS

Chemical Analysis and Physical Properties, Page 303.

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar	Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
$\frac{1}{16} \times \frac{3}{8}$	.0861	1.03	$\frac{1}{16} \times 1$	.230	2.76
$\frac{1}{2}$	.115	1.38	$.090 \times \frac{5}{8}$	.207	2.48
$\frac{5}{8}$	.143	1.72	$\frac{3}{4}$	.248	2.98
$\frac{3}{4}$	.172	2.06	$\frac{1}{8} \times \frac{1}{2}$	.230	2.76


**ROUND
NICKEL SILVER ROD**


12% Leaded Free Cutting
12 FT. STANDARD LENGTHS

Chemical Analysis and Physical Properties, Page 303.
Tolerances, Page 305.
Identification Color—Brown.

Size in Inches	Weight per Foot, lbs.	Approx. Weight 12' Bar
$\frac{3}{32}$	.0260	.312
$\frac{1}{8}$	.0465	.564
$\frac{5}{32}$	.0727	.876
$\frac{3}{16}$	.1047	1.26
$\frac{7}{32}$	.1417	1.68
$\frac{1}{4}$	.186	2.23
$\frac{9}{32}$	.236	2.88
$\frac{5}{16}$	.290	3.48
$\frac{3}{8}$	.418	5.04
$\frac{7}{16}$	.570	6.84
$\frac{1}{2}$	.744	9.00
$\frac{5}{8}$	1.161	13.92
$\frac{3}{4}$	1.675	20.16
1	2.978	35.88
$1\frac{1}{16}$	3.344	40.13


DRAWN BRASS ANGLES


Square Root

ASTM B36—ALLOY 8 SAE 70—Grade C
QQB 611a—Comp. C

Chemical Analysis and Physical Properties, Page 303.

Size in Inches	Thickness in Inches	Weight per Foot, Lbs.	Lengths
$\frac{1}{2}X\frac{1}{2}$	$\frac{1}{16}$	.221	14
$\frac{5}{8}X\frac{5}{8}$	$\frac{1}{16}$	.280	14
$\frac{3}{4}X\frac{3}{4}$	$\frac{1}{16}$	.339	14
1 x1	$\frac{1}{16}$	.457	14


EXTRUDED ANGLES


Square Root

ARCHITECTURAL BRONZE

Size in Inches	Thickness in Inches	Weight per Foot, Lbs.	Lengths
$\frac{1}{2}X\frac{1}{2}$	$\frac{1}{8}$	.403	14
$\frac{5}{8}X\frac{5}{8}$	$\frac{1}{8}$	.514	14
$\frac{3}{4}X\frac{3}{4}$	$\frac{1}{8}$	.629	14
1 x1	$\frac{1}{8}$	.857	14
$1\frac{1}{4}X1\frac{1}{4}$	$\frac{1}{8}$	1.087	14
$1\frac{1}{2}X1\frac{1}{2}$	$\frac{1}{8}$	1.315	14
2 x2	$\frac{1}{8}$	1.773	14
1 x1	$\frac{3}{16}$	1.244	14
$1\frac{1}{4}X1\frac{1}{4}$	$\frac{3}{16}$	1.507	14
$1\frac{1}{2}X1\frac{1}{2}$	$\frac{3}{16}$	1.930	14
2 x2	$\frac{3}{16}$	2.660	14
1 x1	$\frac{1}{4}$	1.716	14
$1\frac{1}{2}X1\frac{1}{2}$	$\frac{1}{4}$	2.516	14
2 x2	$\frac{1}{4}$	3.431	14
3 x3	$\frac{1}{4}$	5.195	13



SHEET BRASS ROLLS



Soft Temper

Drawing and Spinning Quality

Grain Size .035-.055 MM

ASTM B36—Alloy 6—AMS-4505D

Mil—C895A SAE 70—Grade A & B

QQ B611a—Comp. E QQ B613A—Comp. 2

Chemical Analysis and Physical Properties, Page 304.

Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
36	.005	12	.220	22	.0253	9	.839
32	.008	12	.352			10	.932
30	.010	8	.293			11	1.020
		12	.440			12	1.119
28	.0126	8	.370			14	1.305
		12	.556			16	1.492
		24	1.112			17	1.398
27	.0142	8	.417			18	1.683
		10	.521			24	2.238
		12	.625	21	.0285	8	.837
26	.0159	6	.350			10	1.047
		8	.467			12	1.256
		10	.583	20	.032	6	.705
		12	.700			8	.940
		14	.816			9	1.058
25	.0179	24	1.400			10	1.175
		8	.525			12	1.410
		10	.657			14	1.644
		12	.788			16	1.880
		14	.919			18	2.115
24	.0201	6	.442			20	2.350
		7	.517	19	.0359	12	1.582
		8	.590	18	.0403	6	.887
		9	.664			7	1.030
		10	.738			8	1.184
		12	.885			10	1.480
		14	1.032			12	1.780
		24	1.770			14	2.072
23	.0226	8	.663			24	3.560
		10	.829	17	.0453	12	1.996
		12	.995	16	.0508	12	2.238
22	.0253	6	.559			24	4.476
		7	.652	14	.0641	8	1.883
		7½	.685	11	.0907	12	2.825
		8	.746	⅛	.125	24	8.556
						24	11.02

SHEET BRASS—FLAT**Soft Temper**

Drawing and Spinning Quality

8 FT. STANDARD LENGTHS

Grain Size .035-.055 MM

ASTM B36—Alloy 6 SAE 70—Grade A & B
QQ B611a—Comp. E QQ-B-613A—Comp. 2
AMS 4505D—Mil C895AChemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
24	.0201	12	.885	14	.0641	8	1.886
22	.0253	12	1.119			10	2.354
20	.032	8	.940			12	2.825
		10	1.175			24	5.650
		12	1.410	13	.072	12	3.173
		24	2.820	12	.0808	10	3.330
19	.0359	12	1.582			12	3.560
18	.0403	8	1.184	11	.0907	12	3.997
		10	1.480			24	8.556
		12	1.776	10	.1019	8	2.990
		24	3.552			12	4.490
17	.0453	12	1.996	9	.1144	12	5.041
16	.0508	8	1.492	8	.1285	8	3.775
		10	1.865			10	4.719
		12	2.238			12	5.662
		14	2.610			24	11.324
		24	4.476			12	8.262
15	.0571	12	2.516				
				3/16	.1875		

SHEET BRASS—QUARTER HARD**Rolls and Flats**

1 Number Hard Rockwell B40-65

ASTM B36 Alloy 6—SAE 70 Grade A & B
QQ B611a—Comp. E—QQ B613A—Comp. 2
Mil—C895AChemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Lengths
30	.010	12	.441	coils
28	.0126	12	.555	coils
27	.0142	12	.625	coils
26	.0159	12	.700	coils
25	.0179	12	.788	coils
24	.0201	12	.885	coils
23	.0226	12	.996	coils
22	.0253	9	.836	8' Standard
		10	.929	8' Standard
		11	1.022	8' Standard
		12	1.115	coils and 8' Standard
		14	1.301	8' Standard
21	.0285	12	1.256	coils
20	.032	12	1.410	coils and 8' Standard
19	.0359	12	1.580	coils
18	.0403	12	1.776	coils and 8' Standard
		24	3.552	coils
17	.0453	12	2.00	coils
16	.0508	12	2.238	coils and 8' Standard
15	.0571	12	2.516	8' Standard
14	.0641	12	2.825	8' Standard
		18	4.238	coils and 8' Standard
13	.072	12	3.173	8' Standard
12	.0808	8	2.37	8' Standard
12	.0808	12	3.560	8' Standard
11	.0907	12	3.997	8' Standard



BRASS SHEET—ROLLS

Half Hard Temper

2 Numbers Hard Rockwell B57-74
ASTM B36 Alloy 6 SAE 70 Grade A & B
QQ B611a—Comp. E—QQ B613A—Comp. 2
MIL-C-895A

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.



B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
32	.008	12	.353			10	.932
30	.010	6	.220			12	1.119
		8	.293	21	.0285	10	1.05
		12	.440	20	.032	12	1.256
28	.0126	12	.552			8	.940
		16	.734			10	1.175
27	.0142	12	.626			12	1.410
26	.0159	6	.350			14	1.644
		10	.584			18	2.115
		12	.701	19	.0359	12	1.582
25	.0179	8	.526	18	.0403	12	1.776
		10	.657	17	.0453	12	1.996
		12	.789	16	.0508	10	1.865
24	.0201	6	.442			12	2.238
		8	.590			24	4.476
		10	.738	15	.0571	12	2.516
		12	.885	14	.0641	6	1.410
23	.0226	12	.995			8	1.880
22	.0253	6	.560			12	2.825
		8	.746			24	5.650

SHEET BRASS—FLAT

Half Hard Temper

2 Numbers Hard Rockwell B57-74†
8' STANDARD LENGTHS

Items marked with * also carried in 12 ft. Standard Lengths
ASTM B36 Alloy 6 SAE 70 Grade A & B
QQ B611a—Comp. E—QQ B613A—Comp. 2
MIL-C-895A

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
28	.0126	12	.552			24	4.476
26	.0159	12	.700	15	.0571	12	2.516
24	.0201	12	.885	14	.0641	6	1.412
22	.0253	9	.839			8	1.883
		10	.932			10	2.354
		12	1.119			12	* 2.825
		14	1.304			14	3.291
21	.0285	12	1.256			18	4.237
20	.032	8	.940			24	5.650
		10	1.175	13	.072	12	3.173
		12	1.410	12	.0808	10	2.967
		14	1.644			12	3.560
		18	2.115			24	7.120
		24	2.820	11	.0907	8	2.664
19	.0359	12	1.582			10	3.331
18	.0403	8	1.184			12	3.997
		10	1.480	10	.102	12	4.490
		12	1.776	9	.1144	12	5.041
17	.0453	8 *	1.330	8	.1285	8	3.775
		10 *	1.660			10	4.719
		12 *	1.969			12	* 5.662
		14 *	2.333	7	.144	12	6.358
16	.0508	8	1.492	5 $\frac{1}{2}$	.156	12	6.880
		10	1.865	6	.162	12	7.138
		12 *	2.238	3 $\frac{1}{16}$	.1875	12	8.262
		14	2.610	1 $\frac{1}{4}$	.250	12	11.020
		18	3.357				

†Our stock is carried around low side to insure flatness and straightness.

SHEET BRASS—FLAT HARD TEMPER

4 Numbers Hard Rockwell B76-84
 ASTM B36 Alloy 6—SAE 70 Grades A & B
 QQ B611a—Comp E—QQ B613A—Comp 2
 MIL-C-895A

Chemical Analysis and Physical Properties, Page 304.
 Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
36	*.005	12"	.220
30	.010	12"	.440
28	.0126	12"	.556
..	.015	12"	.661
24	.0201	12"	.885
22	.0253	12"	1.119
20	**.032	12"	1.410
19	.0359	12"	1.582
18	.0403	12"	1.780
17	.0453	12"	2.000
16	.0508	12"	2.238
15	.0571	12"	2.516
14	.0641	12"	2.825
13	.072	12"	3.173
12	.0808	12"	3.560
11	.0907	12"	3.997
..	.125	12"	5.813
..	.125	18"	8.719
..	.1875	12"	8.262

*This item only carried in Coils.

**This item carried in Coils and Flats.

SHIM BRASS—ROLLS HARD TEMPER

4 Numbers Hard Rockwell B76-84

ASTM B36 Alloy 6—SAE 70 Grades A & B
 QQ B611a—Comp E—QQ B613A—Comp 2
 MIL-C-895A

Chemical Analysis and Physical Properties, Page 304.
 Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
50	.001	6	.022
44	.002	6	.0441
40	.0031	6	.0683
38	.004	6	.0881
36	.005	6	.110
34	.0063	6	.1386
33	.0071	6	.1562
32	.008	6	.176
32	.008	7	.206
31	.009	6	.198
30	.010	6	.220
..	.015	6	.331
24	.0201	6	.443



SHEET BRASS—SPRING TEMPER



Rolls and Flats

8 Numbers Hard Rockwell B87-92

ASTM B36 Alloy 6 SAE 70 Grade A & B

QQ B611a—Comp. E QQ-B-613A—Comp. 2

MIL-C 895A

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Length
34	.0063	12	.278	coils
33	.0071	12	.312	coils
32	.008	12	.353	coils
30	.010	12	.440	coils
		20	.734	coils
28	.0126	12	.555	coils
27	.0142	12	.625	coils
26	.0159	12	.700	coils
25	.0179	12	.789	coils
24	.0201	12	.886	coils
23	.0226	12	.996	coils
22	.0253	12	1.119	coils and 8' standard
21	.0285	12	1.256	coils
20	.032	12	1.410	coils and 8' standard
19	.0359	12	1.582	coils
18	.0403	12	1.776	coils and 8' standard
17	.0453	12	1.996	8' standard
16	.0508	12	2.238	8' standard
15	.0571	12	2.516	8' standard
14	.0641	12	2.825	8' standard
13	.072	12	3.173	8' standard
12	.0808	12	3.560	8' standard
11	.0907	12	3.997	8' standard
10	.102	12	4.490	8' standard
8	.1285	12	5.662	8' standard

LEADED SHEET BRASS

Half Hard Temper

8 FT. STANDARD LENGTHS

(Suitable for Machining and Some Engraving Applications)

2 Numbers Hard Rockwell B57-74

ASTM B121—Alloy 4

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
.1285	12	5.660	1/2	12	22.00
3/16	12	8.262	5/8	12	27.5
1/4	12	11.00	3/4	12	33.0
5/16	12	13.80	1	12	44.0
3/8	12	16.50	*1 1/2	12	65.4

*Leaded Muntz Metal.

MANGANESE BRONZE SHEETS

8 Ft. Standard Lengths

Thickness in Inches	Width in Inches	Weight per Foot Lbs.
1/4	12	10.9
5/16	12	13.6
3/8	12	16.3

MUNTZ METAL SHEET**Cold Rolled Temper**

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

Thickness in Inches	Size of Sheet	Weight per Sheet, lbs.
.032	36 x 96	33.51
.043	30 x 96	35.40
.043	36 x 96	42.50
.0508	36 x 96	53.52
.0641	36 x 96	67.12
.072	36 x 96	76.08
.0808	36 x 96	84.61
.0907	36 x 96	95.76
.1285	36 x 96	130.90
$\frac{3}{16}$ (.1875)	36 x 48	98.16
$\frac{3}{16}$ (.1875)	36 x 96	196.32
$\frac{1}{4}$ (.250)	36 x 96	261.80
$\frac{3}{8}$ (.375)	36 x 96	396.48
$\frac{1}{2}$ (.500)	36 x 96	528.72
$\frac{3}{4}$ (.750)	36 x 96	784.8
1 (1.000)	36 x 96	1046.2
* $1\frac{1}{2}$ (1.500)	12 x 96	532.2

*Leaded Muntz Metal.

**RED BRASS SHEET—85%**

Soft Temper—Drawing and Spinning Quality
Rolls and Flats

ASTM B36 Alloy 3—SAE 79 Grade A
QQ-B-613A—Comp. 4

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Lengths
30	.010	8	.303	coils
28	.0126	8	.375	coils
		10	.477	coils
		12	.572	coils
26	.0159	8	.481	coils
		12	.726	coils
25	.0179	12	.813	coils
24	.0201	8	.609	coils
		12	.913	coils
23	.0226	12	1.026	coils
22	.0253	8	.765	coils
		10	.957	coils
		12	1.154	coils and 8' Standard
20	.032	12	1.452	coils
19	.0359	12	1.627	coils
18	.0403	12	1.833	8' Standard
16	.0508	12	2.307	8' Standard
14	.0641	12	2.905	8' Standard

RED BRASS SHEET—85%**Quarter Hard Temper****96" EXACT LENGTHS**

QQ-B-613A—Comp. 4

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
20	.032	12	1.452

90% COMMERCIAL BRONZE SHEETS**Soft Temper**Drawing and Spinning Quality
COILS AND FLAT SHEETS

ASTM B36—Alloy 2

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Length
22	.0253	12	1.158	coils
		14	1.353	coils
20	.032	10	1.222	coils
		12	1.416	coils
18.0403		14	1.704	coils
		16	1.950	coils
16	.0508	14	2.150	coils
		16	2.457	coils
		18	2.764	108"
		36	2.329	96"

90% COMMERCIAL BRONZE SHEETS**Half Hard Temper**

2 Numbers Hard Rockwell B50-66

8 FT. STANDARD LENGTHS

ASTM B36—Alloy 2

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
24	.0201	12	.921	15	.0571	10	2.180
22	.0253	12	1.165			12	2.610
20	.032	12	1.465	14	.0641	8	1.947
		36	4.395			10	2.434
18	.0403	12	1.845	13	.072	12	2.931
17	.0453	8 *	1.383	12	.0808	12	3.283
		10 *	1.726	11	.0907	12	3.687
		12 *	2.080	8	.1285	10	4.143
		14 *	2.426			12	4.808
		16 *	2.766			18	5.868
16	.0508	12	2.329	3/16	.187	14	8.802
		36	6.987	1/4	.250	16	10.210
							14.763

*These items carried 12' Standard Lengths.

PHOSPHOR BRONZE—COILS AND FLATS**Spring Temper—Grade A**

8 Numbers Hard Rockwell B88-96

ASTM B103 Alloy A SAE 77A MIL B892 Gr A

QQ B746A—Comp. A QQ-P-330—Comp. A

Chemical Analysis and Physical Properties, Page 304.

Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Lengths
38	.004	6	.092	coils
36	.005	6	.115	coils
34	.0063	6	.145	coils
32	.008	6	.184	coils
		14	.429	coils
30	.010	6	.230	coils
		14	.536	coils
28	.0126	6	.290	coils
		14	.676	coils
27	.0142	6	.327	coils
26	.0159	6	.366	coils and 8 ft. standard
		14	.854	coils and 8 ft. standard
25	.0179	6	.412	coils and 8 ft. standard
		14	.961	coils and 8 ft. standard
24	.0201	6	.463	coils and 8 ft. standard
		14	1.080	coils and 8 ft. standard
23	.0226	6	.511	coils
22	.0253	6	.582	coils and 8 ft. standard
		14	1.358	coils and 8 ft. standard
21	.0285	6	.644	coils and 8 ft. standard
		14	1.502	coils and 8 ft. standard
20	.032	6	.737	coils and 8 ft. standard
		14	1.719	coils and 8 ft. standard
19	.0359	6	.827	coils
18	.0403	6	.928	coils and 8 ft. standard
		14	2.165	coils and 8 ft. standard
17	.0453	6	1.025	8 ft. standard
		14	2.391	8 ft. standard
16	.0508	6	1.170	8 ft. standard
		14	2.726	8 ft. standard
15	.0571	6	1.292	8 ft. standard
		14	2.974	8 ft. standard
14	.0641	6	1.477	8 ft. standard
		14	3.446	8 ft. standard
13	.072	6	1.583	8 ft. standard
12	.081	6	1.833	8 ft. standard
11	.091	6	2.060	8 ft. standard
		14	5.806	8 ft. standard
10	.102	6	2.256	8 ft. standard
8	.1285	6	2.950	8 ft. standard
		8	3.830	8 ft. standard
$\frac{3}{16}$	.1875	6	4.920	8 ft. standard
$\frac{3}{16}$	.1875	8	6.593	8 ft. standard



SOFT SHEET COPPER Hot Rolled



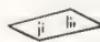
Electrolytic Tough Pitch
ASTM B152 Type ETP—SAE 71
QQ C501A & 576A

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

Weight Ounces per Sq. Ft.	Thickness in Inches	Sheet Size	Weight per Sheet, lbs.	Weight Ounces per Sq. Ft.	Thickness in Inches	Sheet Size	Weight per Sheet, lbs.
10	.0135	30x 60	7.81	38	.051	30x 96	47.50
12	.016	36x 96	18.00			36x 96	57.00
14	.0188	36x 96	21.00	48	.0647	30x 96	60.00
16	.0216	20x 96*	13.33			36x 96	72.00
		24x 96*	16.00	54	.072	36x 96	80.00
		30x 96*	20.00	60	.081	36x 96	90.00
		30x120*	25.00	67	.091	36x 96	104.00
		36x 96*	24.00	1/8	.125	30x 96	115.92
		36x120	30.00			36x 96	139.00
		48x 96	32.00			48x120	232.00
18	.0242	30x 96	22.50	3/16	.187	30x 60	108.68
		36x 96	27.00			30x 96	174.00
20	.027	30x 96	25.00	1/4	.250	30x 96	232.00
		36x 96	30.00	1/2	.500	36x 48	278.40
24	.0324	24x 96	24.00			36x 96	556.80
		30x 96	30.00	3/4	.750	36x 48	417.60
		36x 96	36.00	1	1.000	36x 48	556.80
32	.0432	30x 96	40.00	1 1/4	1.250	12x 96	464.80
		36x 96	48.00				

*Also carried in Leadcoated Finish.
Anaconda, Cheney and Revere Copper Thru-wall Flashings carried in stock for immediate shipment.

HALF HARD COPPER—FLATS AND ROLLS



Electrolytic Tough Pitch



2 Numbers Hard Rockwell B30-50

ASTM B152 Type ETP—SAE 71

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	
30	.010	12	.464	coils
22	.0253	12	1.160	coils and 8' rl.
20	.032	12	1.480	coils
18	.0403	12	1.850	coils

COLD ROLLED SHEET COPPER

Electrolytic Tough Pitch

Rockwell B39 Maximum

ASTM B152 Type ETP—SAE 71

QQ C501A & 576A

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

Ounces per Sq. Ft.	Thickness in Inches	Size in Inches	Weight per Sheet, lbs.	Ounces per Sq. Ft.	Thickness in Inches	Size in Inches	Weight per Sheet, lbs.
12	.016	36x 96	18.00	32	.043	30x 96	40.00
14	.0189	30x 96	17.50			36x 96	48.00
		36x 96	21.00			36x120	60.00
16	.0216	12x 96	8.00			48x120	80.00
		20x 96	13.33	38	.051	30x 96	47.50
		24x 96*	16.00			36x 96	57.00
		24x120	20.00			48x120	95.00
		30x 96*	20.00	48	.0647	30x 96	60.00
		30x120	25.00			36x 96	72.00
		36x 96*	24.00			48x120	120.00
		36x120	30.00				
18	.0242	30x 96	22.50	54	.072	36x 96	84.00
		36x 96	27.00	60	.081	36x 96	90.00
20	.027	24x 96	20.00			48x120	150.00
		30x 96	25.00	67	.091	36x 96	104.00
		36x 96	30.00			48x 96	138.63
		36x120	37.50				
		48x120	50.00	1/8	.125	30x 96	116.00
24	.032	24x 96	24.00			36x 96	139.00
		26x 96	25.92	3/16	.1875	30x 60	109.00
24	.032	30x 96	30.00			36x 96	208.80
		36x 96	36.00	1/4	.250	24x 96	192.00
		36x120	45.00			36x 96	278.00
		48x120	60.00				

*These sizes also carried in Leadcoated Finish.
Anaconda, Cheney and Revere Copper Thru-wall Flashings and Reglets
also carried in stock for immediate shipment.

**SOFT SHEET COPPER
COLD ROLLED**

Annealed for Spinning

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

Weight Ounces per Sq. Ft.	Thickness in Inches	Sheet Size	Weight per Sheet, lbs.
24	.032	36 x 96	36.00
32	.0432	36 x 96	48.00
38	.051	36 x 96	57.00
48	.0647	36 x 96	72.00
67	.091	36 x 96	104.00



SOFT COPPER—ROLLS

Electrolytic Tough Pitch



Cold Rolled Annealed

Drawing and Spinning Quality

ASTM B152 Type ETP—SAE 71A

QQ C501A & 576A

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.
44	.002	12	.093			18	1.500
40	.0031	12	.140			20	1.766
38	.004	12	.186	22	.0253	5	.469
36	.005	12	.233			6	.580
34	.0063	12	.280			8	.783
32	.008	12	.353			10	.939
30	.010	12	.500			12	1.160
28	.0126	12	.556			14	1.363
27	.0142	12	.649	20 oz.	.027	12	1.250
26	.0159	12	.742	20	.032	8	.987
25	.0179	12	.835			12	1.480
• 16 oz.	.0215	6	.500			14	1.726
		7	.583			16	1.924
		8	.667			20	2.467
		9	.750	19	.0359	12	1.670
		10	.833	18	.0403	12	1.850
		12	1.000	16	.0508	12	2.360
		14	1.167	14	.0641	12	2.970
		16	1.334				

18% NICKEL SILVER—ROLLS AND FLATS



Half Hard Temper

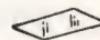
2 Numbers Hard Rockwell B81-91

ASTM B122—Alloy 4



Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Lengths
28	.0126	8	.384	coils
27	.0142	8	.424	coils
26	.0159	8	.484	coils
25	.0179	8	.552	coils
24	.0201	8	.620	coils
22	.0253	8	.769	coils
20	.032	8	.970	coils and 8 ft. Standard

18% NICKEL SILVER—ROLLS AND FLATS**Soft Temper**

ASTM B122—Alloy 2

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Lengths
32	.008	8	.242	coils
30	.010	8	.303	coils
28	.0126	8	.384	coils
26	.0159	8	.484	coils
24	.0201	8	.620	coils
22	.0253	8	.769	coils
20	.032	8	.970	coils
18	.0403	8	1.229	8 ft. Standard
16	.0508	8	1.543	8 ft. Standard
14	.0641	8	1.945	8 ft. Standard
12	.0808	8	2.458	8 ft. Standard
11	.0907	8	2.739	8 ft. Standard

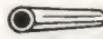
18% NICKEL SILVER—ROLLS AND FLATS**Spring Temper**

8 Numbers Hard Rockwell B97-100

ASTM B122—Alloy 4

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 308-310.

B & S Gage	Thickness in Inches	Width in Inches	Weight per Foot, lbs.	Lengths
32	.008	6	.182	coils
		8	.242	coils
30	.010	6	.227	coils
		8	.303	coils
28	.0126	6	.287	coils
		8	.382	coils
27	.0142	6	.313	coils
26	.0159	6	.361	coils
24	.0201	6	.457	coils
22	.0253	8	.607	8' standard


ROUND SEAMLESS BRASS TUBE

Half Hard Temper**14 FT. STANDARD LENGTHS**

ASTM B135 Alloy 3, SAE 74 Grade B
WW—T7791 Gr 2 & 3, Mil—T6945 Comp. 3
Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 311-312.

Outside Diam. Inches	B & S Gage	Wall Thick. Inches	Approx. Inside Diameter	Weight per Foot, lbs.	Outside Diam. Inches	B & S Gage	Wall Thick. Inches	Approx. Inside Diameter	Weight per Foot, lbs.
1/8	26	.016	.093	.020	7/16	18	.040	.357	.184
	24	.020	.085	.024		16	.051	.335	.224
	22	.025	.075	.0289		14	.065	.307	.280
	20	.032	.061	.034		12	.081	.275	.331
5/32	22	.025	.106	.038	1/2	24	.020	.460	.111
	20	.032	.092	.046		22	.025	.450	.137
3/16	26	.016	.155	.032		20	.032	.436	.173
	24	.020	.147	.038		19	.035	.430	.188
	22	.025	.137	.047		18	.040	.420	.213
	20	.032	.123	.057		16	.051	.398	.260
	18	.040	.107	.068		14	.065	.370	.327
7/32	20	.032	.154	.069		12	.081	.338	.389
1/4	24	.020	.210	.053		11	.091	.318	.427
	22	.025	.200	.065		8	.128	.244	.550
	21	.028	.194	.072	9/16	24	.020	.522	.126
	20	.032	.186	.080		22	.025	.512	.155
	18	.040	.170	.097		21	.028	.506	.173
	16	.051	.148	.120		20	.032	.498	.196
	14	.065	.120	.139		18	.040	.482	.240
9/32	..	.015	.251	.048		16	.051	.460	.300
5/16	24	.020	.272	.067		14	.065	.432	.374
	22	.025	.262	.084		8	.128	.306	.633
	20	.032	.248	.104	5/8	24	.020	.585	.140
	18	.040	.232	.126		22	.025	.575	.174
	16	.051	.210	.151		21	.028	.569	.193
	14	.065	.182	.186		20	.032	.561	.220
	11	.091	.130	.232		19	.035	.555	.239
3/8	24	.020	.335	.082		18	.040	.545	.270
	22	.025	.325	.101		16	.051	.523	.333
	20	.032	.311	.127		14	.065	.495	.421
	19	.035	.305	.137		12	.081	.463	.505
	18	.040	.295	.155		11	.091	.443	.557
	16	.051	.273	.189		8	.128	.369	.724
	15	.057	.261	.213	1 1/16	24	.020	.637	.155
	14	.065	.245	.233		22	.025	.637	.191
	12	.081	.213	.270		20	.032	.623	.242
	11	.091	.193	.297		14	.065	.557	.468
.380	18	.040	.300	.160		8	.128	.431	.814
7/16	24	.020	.397	.097	3/4	24	.020	.730	.169
	22	.025	.387	.119		22	.025	.700	.210
	20	.032	.373	.150					

(Continued on following page)

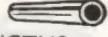
ROUND SEAMLESS BRASS TUBE
HALF HARD TEMPER—14 FT. STANDARD LENGTHS
ASTM B135 Alloy 3—SAE 74 Grade B
WW—T791 Gr 2 & 3—Mil—T6945 Comp 3

 Chemical Analysis and Physical Properties, Page 304.
 Tolerances, Pages 311-312.

(Continued from preceding page)

Outside Diam. Inches	Wall Thick. Gage	Approx. Inside Diameter Inches	Weight per Foot, lbs.	Outside Diam. Inches	Wall Thick. Gage	Approx. Inside Diameter Inches	Weight per Foot, lbs.
$\frac{3}{4}$	.032	.686	.266	$1\frac{1}{8}$	11	.091	.943 1.080
18	.040	.670	.329	8	.128	.869	1.480
16	.051	.648	.405	$1\frac{3}{16}$	20	.032	1.123 .430
14	.065	.620	.515	14	.065	1.057	.840
12	.081	.588	.620	8	.128	.931	1.590
11	.091	.568	.687	$1\frac{1}{4}$	20	.032	1.186 .451
8	.128	.494	.920	16	.051	1.148	.694
$1\frac{3}{16}$	.025	.762	.228	14	.065	1.120	.891
20	.032	.748	.290	8	.128	.994	1.660
14	.065	.682	.562	$1\frac{5}{16}$	20	.032	1.248 .472
$\frac{7}{8}$	.025	.825	.242	14	.065	1.182	.938
20	.032	.811	.312	$1\frac{3}{8}$	20	.032	1.311 .496
18	.040	.795	.387	16	.051	1.273	.767
16	.051	.773	.485	14	.065	1.245	.985
14	.065	.745	.609	8	.128	1.119	1.850
12	.081	.713	.736	$1\frac{1}{2}$	22	.025	1.450 .427
11	.091	.693	.818	20	.032	1.436	.544
8	.128	.619	1.110	18	.040	1.420	.676
$1\frac{5}{16}$	.032	.873	.335	16	.051	1.398	.839
19	.035	.867	.370	14	.065	1.370	1.080
18	.040	.857	.420	12	.081	1.338	1.31
14	.065	.807	.656	11	.091	1.318	1.500
8	.128	.681	1.220	8	.128	1.244	2.03
1	.020	.960	.226	$1\frac{1}{8}$	18	.040	1.545 .734
22	.025	.950	.282	14	.065	1.495	1.160
20	.032	.936	.358	8	.128	1.369	2.220
18	.040	.920	.444	$1\frac{3}{4}$	20	.032	1.686 .636
16	.051	.898	.550	18	.040	1.670	.792
14	.065	.870	.703	14	.065	1.620	1.270
12	.081	.838	.852	8	.128	1.494	2.400
11	.091	.818	.948	$1\frac{7}{8}$	20	.032	1.811 .680
8	.128	.744	1.29	14	.065	1.745	1.340
$1\frac{1}{16}$	.025	1.012	.300	..	.083	1.709	1.720
14	.065	.934	.750	8	.128	1.619	2.590
8	.128	.806	1.370	$\frac{3}{16}$	.187	1.500	3.670
$1\frac{1}{8}$	.025	1.075	.318	2	20	.032	1.936 .729
20	.032	1.061	.404	16	.051	1.898	1.140
18	.040	1.045	.502	14	.065	1.870	1.430
16	.051	1.023	.622	8	.128	1.744	2.770
14	.065	.995	.794				

(Continued on following page)


ROUND SEAMLESS BRASS TUBE


HALF HARD TEMPER—14 FT. STANDARD LENGTHS

ASTM B135 Alloy 3—SAE 74 Grade B

WW—T791 Gr 2 & 3—MIL—T6945 Comp. 3

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 311-312.

(Continued from preceding page)

Outside Diam. Inches	B & S Gage	Wall Thick. Inches	Approx. Inside Diameter	Weight per Foot, lbs.	Outside Diam. Inches	B & S Gage	Wall Thick. Inches	Approx. Inside Diameter	Weight per Foot, lbs.
2 1/8	16	.051	2.023	1.200	4 1/2	8	.128	4.244	6.43
	14	.065	1.995	1.550	4 3/4	14	.065	4.620	3.52
	8	.128	1.869	2.890		8	.128	4.494	6.79
2 1/4	3/16	.187	1.750	4.160	5	14	.065	4.870	3.71
	16	.051	2.148	1.270		8	.128	4.744	7.16
	14	.065	2.120	1.620	5 1/8	14	.065	4.995	3.804
2 3/8	8	.128	1.994	3.150	5 1/4	8	.128	4.994	7.57
	14	.065	2.245	1.752	5 1/2	8	.128	5.244	7.90
	2 1/2	14	.065	2.370	5 3/4	8	.128	5.494	8.27
		8	.128	2.244	6	8	.128	5.744	8.62
2 3/4	14	.065	2.620	2.020	6 1/8	14	.065	5.995	4.554
	8	.128	2.494	3.890	6 1/4	8	.128	5.994	9.00
	2 7/8	14	.065	2.745	6 1/2	8	.128	6.244	9.37
3	14	.065	2.870	2.170	6 3/4	8	.128	6.494	9.60
	8	.128	2.744	4.220	7	8	.128	6.744	10.10
	3 1/4	14	.065	3.120	7 1/4	8	.128	6.994	10.47
		8	.128	2.994	7 1/2	8	.128	7.244	10.83
3 1/2	14	.065	3.370	2.580	7 3/4	8	.128	7.494	11.20
	8	.128	3.244	4.960	8	8	.128	7.744	11.57
	3 5/8	.049	3.527	2.031	8 1/4	8	.128	7.994	12.60
3 3/4	14	.065	3.620	2.77	8 1/2	8	.128	8.244	12.31
	8	.128	3.494	5.33	9 3/8	3/16	.187	9.250	20.35
	4	14	.065	3.870	5/16	.312	.900	33.65	
		8	.128	3.744	10 1/4	1/8	.125	10.00	14.60
4 1/4	14	.065	4.120	3.15	12 3/8	3/16	.187	12.00	26.52
	8	.128	3.994	6.06	14 3/8	3/16	.187	14.00	30.69
	4 1/2	14	.065	4.370	16 1/2	1/4	.250	16.00	47.00


**SQUARE
SEAMLESS BRASS TUBE**


HALF HARD TEMPER—14 FT. STANDARD LENGTHS

(SAME ANALYSIS AS ROUND)

Outside Diameter Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot	Outside Diameter Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot
1/4	20	.032	.102	1	20	.032	.456
5/16	24	.020	.086		18	.040	.564
3/8	20	.032	.161		14	.065	.893
1/2	20	.032	.220	1 1/4	20	.032	.573
	18	.040	.270		14	.065	1.231
	14	.065	.415	1 1/2	19	.036	.753
5/8	20	.032	.279		14	.065	1.372
	14	.065	.535	1 3/4	20	.040	1.006
3/4	20	.032	.338		14	.065	1.513
	18	.040	.418	2	18	.040	1.152
	14	.065	.654		14	.065	1.854
7/8	20	.032	.396				



**RECTANGULAR
SEAMLESS BRASS TUBE**



HALF HARD TEMPER—14 FT. STANDARD LENGTHS

(SAME ANALYSIS AS ROUND)

Outside Size Inches	B & S Gage	Wall Thickness Inches	Weight Per Ft., Lbs.
$\frac{3}{8} \times \frac{3}{4}$	18	.040	.333
$\frac{3}{8} \times 1\frac{1}{2}$	18	.040	.555
$\frac{5}{8} \times 1\frac{1}{2}$	14	.065	1.000
$\frac{3}{4} \times 1\frac{1}{4}$	20	.032	.470
1 x 2	12	.080	1.780



**ROUND 90-10
COMMERCIAL BRONZE TUBE**



HALF HARD TEMPER—14 FT. STANDARD LENGTHS

Outside Diameter Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot	Outside Diameter Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot
1	18	.040	.463	2	14	.065	1.490
$1\frac{1}{2}$	18	.040	.709	$2\frac{1}{2}$	18	.040	1.200
$1\frac{3}{4}$	14	.065	1.320				



**SQUARE 90-10
COMMERCIAL BRONZE TUBE**



HALF HARD TEMPER—14 FT. STANDARD LENGTHS

Outside Size Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot	Outside Diameter Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot
$\frac{3}{4}$	18	.040	.434	2	14	.065	1.890
$\frac{3}{4}$	15	.057	.614	3	14	.065	2.866
$1\frac{1}{2}$	18	.040	.900				



**HEXAGON 90-10
COMMERCIAL BRONZE TUBE**



HALF HARD TEMPER—14 FT. STANDARD LENGTHS

Outside Size Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot	Outside Diameter Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot
$1\frac{1}{2}$		.049	.941	3	..	.049	1.910
2	18	.040	1.047				



**RECTANGULAR 90-10
COMMERCIAL BRONZE TUBE**



HALF HARD TEMPER—14 FT. STANDARD LENGTHS

Outside Size Inches	B & S Gage	Wall Thickness Inches	Weight Per Foot
$\frac{3}{8} \times 1\frac{1}{2}$	18	.040	.577
$\frac{5}{8} \times 1\frac{1}{4}$	14	.065	.865



ROUND

RED BRASS PIPE—IPS**STANDARD PIPE SIZES****12 FT. EXACT LENGTHS**

ASTM B43 Mil—P2780—Grade A

WW P351 Grade A

Chemical Analysis, Page 304.

Physical Properties, Page 304.

Nominal Size	Outside Dia.	Wall Thickness	Inside Dia.	Weight per Foot, lbs.
$\frac{1}{8}$	.405	.062	.281	.253
$\frac{1}{4}$	.540	.082	.375	.447
$\frac{3}{8}$	.675	.090	.494	.627
$\frac{1}{2}$	.840	.107	.625	.934
$\frac{3}{4}$	1.050	.114	.822	1.27
1	1.315	.126	1.062	1.79
$1\frac{1}{4}$	1.660	.146	1.368	2.63
$1\frac{1}{2}$	1.900	.150	1.600	3.13
2	2.375	.156	2.062	4.12
$2\frac{1}{2}$	2.875	.187	2.500	6.00
3	3.500	.219	3.062	8.56
$3\frac{1}{2}$	4.000	.250	3.500	11.17
4	4.500	.250	4.000	12.66
5	5.563	.250	5.063	15.85



ROUND

RED BRASS PIPE—IPS**EXTRA HEAVY PIPE SIZES****12 FT. EXACT LENGTHS**

ASTM B43 Mil—P2780—Grade A

WW P351 Grade A

Chemical Analysis, Page 304.

Physical Properties, Page 304.

Nominal Size	Outside Dia.	Wall Thickness	Inside Dia.	Weight per Foot, lbs.
$\frac{1}{8}$	.405	.100	.205	.363
$\frac{1}{4}$	.540	.123	.294	.611
$\frac{3}{8}$	.675	.127	.421	.829
$\frac{1}{2}$	.840	.149	.542	1.23
$\frac{3}{4}$	1.050	.157	.736	1.67
1	1.315	.182	.951	2.46
$1\frac{1}{4}$	1.660	.194	1.272	3.39
$1\frac{1}{2}$	1.900	.203	1.494	4.10
2	2.375	.221	1.933	5.67
$2\frac{1}{2}$	2.875	.280	2.315	8.66
3	3.500	.304	2.892	11.57
$3\frac{1}{2}$	4.000	.321	3.358	14.07
4	4.500	.341	3.818	16.90



**ROUND
COPPER PIPE—IPS**



Standard Pipe Sizes

12 FT. EXACT LENGTHS

ASTM B42—SAE 75 WW P377

Chemical Analysis and Physical Properties, Page 304.

Nominal Size	Outside Dia.	Wall Thickness	Inside Dia.	Weight per Foot, lbs.
$\frac{1}{8}$	.405	.062	.281	.259
$\frac{1}{4}$	.540	.082	.375	.457
$\frac{3}{8}$	.675	.090	.494	.641
$\frac{1}{2}$	.840	.107	.625	.955
$\frac{3}{4}$	1.050	.114	.822	1.30
1	1.315	.126	1.062	1.83
$1\frac{1}{4}$	1.660	.146	1.368	2.69
$1\frac{1}{2}$	1.900	.150	1.600	3.20
2	2.375	.156	2.062	4.23
$2\frac{1}{2}$	2.875	.187	2.500	6.12
3	3.500	.219	3.062	8.75
$3\frac{1}{2}$	4.000	.250	3.500	11.40
4	4.500	.250	4.000	12.90



**ROUND
COPPER PIPE—IPS**



Extra Heavy Pipe Sizes

12 FT. EXACT LENGTHS

ASTM B42—SAE 75 WW P377

Chemical Analysis and Physical Properties, Page 304.

Nominal Size	Outside Dia.	Wall Thickness	Inside Dia.	Weight per Foot, lbs.
$\frac{1}{8}$	.405	.100	.205	.371
$\frac{1}{4}$	.540	.123	.294	.625
$\frac{3}{8}$	.675	.127	.421	.847
$\frac{1}{2}$	.840	.149	.542	1.25
$\frac{3}{4}$	1.050	.157	.736	1.71
1	1.315	.182	.951	2.51
$1\frac{1}{4}$	1.660	.194	1.272	3.46
$1\frac{1}{2}$	1.900	.203	1.494	4.19
2	2.375	.221	1.933	5.80
$3\frac{1}{2}$	4.000	.321	3.358	14.40
4	4.500	.341	3.818	17.30



**ROUND
SEAMLESS COPPER TUBE**



Half Hard Temper

14 FT. STANDARD LENGTHS

ASTM B75—SAE 75

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 311-312.

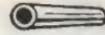
Outside Diameter	Wall B & S Gage	Wall Thickness	Approximate Inside Diameter	Weight per Foot, lbs.
$\frac{1}{8}$	20	.032	.061	.036
$\frac{3}{16}$	20	.032	.123	.060
$\frac{1}{4}$	20	.032	.186	.084
	14	.065	.120	.146
$\frac{5}{16}$	20	.032	.248	.109
	14	.065	.182	.196
$\frac{3}{8}$	20	.032	.311	.133

(Continued on following page)



ROUND

SEAMLESS COPPER TUBE



Half Hard Temper

14 FT. STANDARD LENGTHS

ASTM B68-B75—SAE 75

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 311-312.

(Continued from preceding page)

Outside Diameter	Wall B & S Gage	Wall Thickness	Approximate Inside Diameter	Weight per Foot, lbs.
$\frac{3}{8}$	14	.065	.245	.245
$\frac{1}{16}$	20	.032	.373	.158
	14	.065	.307	.295
$\frac{1}{2}$	20	.032	.436	.182
	19	.035	.430	.198
	14	.065	.370	.344
$\frac{5}{8}$	20	.032	.561	.231
	14	.065	.495	.443
$\frac{3}{4}$	20	.032	.686	.280
	14	.065	.620	.542
	8	.128	.494	.953
$\frac{7}{8}$	20	.032	.811	.328
	14	.065	.745	.641
1	20	.032	.936	.377
	14	.065	.870	.740
	8	.128	.744	1.340
$1\frac{1}{4}$	20	.032	1.186	.475
	14	.065	1.120	.938
	8	.128	1.194	1.750
$1\frac{1}{2}$	20	.032	1.436	.572
	14	.065	1.370	1.140
	8	.128	1.244	2.120
$1\frac{3}{4}$	14	.065	1.620	1.334
2	19	.035	1.930	.837
	14	.065	1.870	1.532
$2\frac{1}{2}$	14	.065	2.370	1.930
3	14	.065	2.870	2.323

ROUND
SEAMLESS COPPER TUBE

Soft Temper

50 Foot Coils Open End

ASTM B68-B75—SAE 75

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Pages 311-312.

Outside Diameter	Wall B & S Gage	Wall Thickness	Approximate Inside Diameter	Weight per Foot, lbs:
$\frac{1}{4}$	19	.035	.120	.092
	.	.049	.152	.120
	14	.065	.120	.146
$\frac{5}{16}$	.	.049	.214	.157
$\frac{3}{8}$	.	.049	.277	.195
$\frac{1}{2}$	19	.035	.430	.198
	.	.049	.402	.269
	14	.065	.370	.344
$\frac{5}{8}$	19	.035	.555	.252
	14	.065	.495	.443
$\frac{3}{4}$	14	.065	.620	.542
1	19	.035	.930	.411
	14	.065	.870	.740

SEAMLESS COPPER REFRIGERATION TUBE

Dehydrated and Sealed—Dead Soft



50 Ft. Exact Coils—Individually Packaged

Outside Diameter	Wall Thickness	Weight per Foot, lbs.	Weight per Coil, lbs.	Cartons per Master Carton
$\frac{1}{8}$	.030	.0347	1.74	25
$\frac{3}{16}$	.030	.0575	2.88	18
$\frac{1}{4}$	.030	.0804	4.02	15
$\frac{5}{16}$	.032	.109	5.45	11
$\frac{3}{8}$	.032	.134	6.70	9
$\frac{7}{16}$	.035	.172	8.60	..
$\frac{1}{2}$	.032	.182	9.10	6
$\frac{5}{8}$	.035	.251	12.55	4
$\frac{3}{4}$	.035	.305	15.25	4

SEAMLESS COPPER AUTOMOTIVE TUBE

25 Ft. Exact Coils—Individually Packaged



Outside Diameter	Wall Thickness	Weight per Foot, lbs.	Weight per Coil, lbs.	Cartons per Master Carton
$\frac{1}{8}$	.030	.0347	.867	25
$\frac{3}{16}$	.030	.0575	1.44	25
$\frac{1}{4}$	.030	.0804	2.01	25
$\frac{5}{16}$	.032	.109	2.73	25
$\frac{3}{8}$	.032	.134	3.35	25
$\frac{7}{16}$	.032	.158	3.95	25
$\frac{1}{2}$	.032	.182	4.55	25

DEOXIDIZED COPPER WATER SERVICE TUBE

Type K—Soft Temper—60 Ft. Coils
Operating pressure up to 250 lbs.



Individually Packaged

ASTM B88—WWT 799A

Nominal Size	Actual Outside Diameter	Wall Thickness	Weight per Foot, lbs.
$\frac{3}{8}$	$\frac{1}{2}$	.049	.269
$\frac{1}{2}$	$\frac{5}{8}$	.049	.344
$\frac{3}{4}$	$\frac{7}{8}$	.065	.641
1	$1\frac{1}{8}$	.065	.839

DEOXIDIZED COPPER WATER SERVICE TUBE

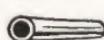
Type L—Soft Temper—60 Ft. Coils
Operating Pressure Up to 200 Lbs.



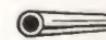
Individually Packaged

ASTM B88—WWT 799A

Nominal Size	Actual Outside Diameter	Wall Thickness	Weight per Foot, lbs.
$\frac{1}{4}$	$\frac{3}{8}$	.030	.126
$\frac{3}{8}$	$\frac{1}{2}$	.035	.198
$\frac{1}{2}$	$\frac{5}{8}$	.040	.285
$\frac{3}{4}$	$\frac{7}{8}$	.045	.455
1	$1\frac{1}{8}$	.050	.655

DEOXIDIZED COPPER WATER SERVICE TUBE

Hard Temper—20 Ft. Exact Lengths



Operating Pressure:
Type K Up to 400 Lbs.
Type L Up to 300 Lbs.
Type M Up to 250 Lbs.

ASTM B88—WWT 799A

Nominal Size	Actual Outside Diameter	TYPE K		TYPE L		TYPE M	
		Wall Thickness	Weight per Foot, lbs.	Wall Thickness	Weight per Foot, lbs.	Wall Thickness	Weight per Foot, lbs.
$\frac{1}{4}$	$\frac{3}{8}$	....	....	.030	.126	....	....
$\frac{3}{8}$	$\frac{1}{2}$	.049	.269	.035	.198	.025	.145
$\frac{1}{2}$	$\frac{5}{8}$	.049	.344	.040	.285	.028	.204
$\frac{5}{8}$	$\frac{3}{4}$	.049	.418	.042	.362	....	....
$\frac{3}{4}$	$\frac{7}{8}$	.065	.641	.045	.455	.032	.328
1	$1\frac{1}{8}$	.065	.839	.050	.655	.035	.465
$1\frac{1}{4}$	$1\frac{3}{8}$	.065	1.04	.055	.884	.042	.682
$1\frac{1}{2}$	$1\frac{5}{8}$	.072	1.36	.060	1.14	.049	.940

**ROUND BRASS WIRE**

SPRING TEMPER—70-30

SAE 80

ASTM B134 Alloy 6—QQW 321B Comp B

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Page 306.

B & S Gage	Size in Inches	Weight, lbs. per 1000 ft.	Feet per Pound	B & S Gage	Size in Inches	Weight, lbs. per 1000 ft.	Feet per Pound
28	.0126	.460	2170	12	.0808	19.0	52.8
27	.0142	.585	1710	11	.0907	23.9	41.9
26	.0159	.734	1360	..	.095	27.3	36.6
25	.0179	.930	1080	10	.102	30.2	33.1
24	.0201	1.17	853	..	.109	35.9	27.8
22	.0253	1.86	538	9	.1142	37.7	26.5
21	.0285	2.36	424	..	.120	42.0	23.8
20	.0320	2.97	336	1/8	.125	45.2	22.1
19	.0359	3.74	267	8	.1285	47.6	21.0
18	.0403	4.71	212	..	.134	52.2	19.1
17	.0453	5.96	168	7	.144	60.2	16.6
16	.0508	7.49	133	5/32	.156	70.6	14.1
15	.0571	9.46	106	6	.162	76.2	13.1
14	.0641	11.9	83.8	5	.182	96.2	10.4
13	.0720	15.0	66.5	4	.204	121.0	8.28

**ROUND BRASS WIRE**

HALF HARD TEMPER—70-30

SAE 80A

ASTM B134 Alloy 6—QQW 321B Comp B

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Page 306.

B & S Gage	Size in Inches	Weight, lbs. per 1000 ft.	Feet per Pound	B & S Gage	Size in Inches	Weight, lbs. per 1000 ft.	Feet per Pound
20	.0320	2.97	336	10	.102	30.2	33.1
18	.0403	4.71	212	9	.1142	37.7	26.5
16	.0508	7.49	133	8	.1285	47.6	21.0
15	.0571	9.46	106	7	.144	60.2	16.6
14	.0641	11.9	83.8	5/32	.156	70.6	14.1
13	.0720	15.0	66.5	6	.162	76.2	13.1
12	.0808	19.0	52.8	5	.182	96.2	10.4
11	.0907	23.9	41.9	3/16	.1875	102.0	9.8

**ROUND BRASS WIRE**

SOFT TEMPER—70-30

SAE 80A

ASTM B134 Alloy 6—QQW 321B Comp B

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Page 306.

B & S Gage	Size in Inches	Weight, lbs. per 1000 ft.	Feet per Pound	B & S Gage	Size in Inches	Weight, lbs. per 1000 ft.	Feet per Pound
22	.0253	1.86	538	14	.0641	11.9	83.8
20	.032	2.97	336	13	.072	15.0	66.5
19	.0359	3.74	267	12	.0808	19.0	52.8
18	.0403	4.71	212	11	.0907	23.9	41.9
17	.0453	5.96	168	10	.102	30.2	33.1
16	.0508	7.49	133	8	.1285	47.6	21.0
15	.0571	9.46	106	3/16	.1875	102.0	9.8

PHOSPHOR BRONZE WIRE SPRING TEMPER



Grade A—Elephant Brand

ASTM B159 Alloy A—SAE 81
QQW 401 AMS 4720B

Chemical Analysis and Physical Properties, Page 304.
Tolerances, Page 306.

B & S Gage	Size in Inches	Weight, lbs. per 1000 Feet	Feet per Pound
33	.0071	.152	6580
32	.008	.193	5180
31	.0089	.239	4190
30	.010	.302	3320
29	.0113	.385	2600
28	.0126	.479	2100
27	.0142	.608	1640
26	.0159	.762	1310
25	.0179	.966	1040
24	.0201	1.22	821
23	.0226	1.54	649
22	.0253	1.93	518
21	.0285	2.45	408
20	.032	3.09	324
19	.0359	3.89	257
18	.0403	4.90	204
17	.0453	6.19	162
16	.0508	7.78	128
..	.054	8.84	113
15	.0571	9.83	102
14	.0641	12.4	80.7
13	.072	15.6	64.0
12	.0808	19.7	50.8
..	.085	22.5	45.3
11	.0907	24.8	40.3
..	.095	27.3	36.6
10	.102	31.4	31.9
..	.105	32.4	30.8
..	.109	35.9	27.9
9	.114	39.2	25.5
..	.120	43.6	22.9
1/8	.125	47.5	21.0
8	.1285	49.4	20.2
..	.134	54.3	18.4
7	.144	62.5	16.0
..	.148	66.3	15.0
5/32	.156	73.6	13.5
6	.162	79.2	12.6
5	.182	99.9	10.0
3/16	.1875	106.9	9.35
4	.204	126.0	7.97
..	.220	146.2	6.84
3	.229	158.0	6.32
1/4	.250	190.2	5.25
..	.259	207.2	4.82
5/16	.3125	297.1	3.36

**SOFT BARE COPPER WIRE**

ASTM B3—SAE 83

QQ W341a

Chemical Analysis and Physical Properties, Page 304.

Tolerances, Page 306.

B & S Gage	Size in Inches	Weight, lbs. per 1000 Feet	Feet per Pound
26	.0159	.770	1300
24	.0201	1.23	813
23	.0226	1.55	643
22	.0253	1.95	513
20	.032	3.12	321
19	.0359	3.92	255
18	.0403	4.94	202
17	.0453	6.25	160
16	.0508	7.86	127
15	.0571	9.93	101
14	.0641	12.5	79.9
13	.072	15.8	63.4
12	.0808	19.9	50.3
11	.0907	25.0	39.9
10	.102	31.7	31.6
9	.114	39.6	25.3
8	.1285	49.9	20.0
7	.144	63.1	15.8
6	.162	79.9	12.5
5½	.1875	102.0	10.2
4	.204	127.0	7.89

**18% NICKEL SILVER WIRE**

SPRING TEMPER

ASTM B206—Alloy B

Chemical Analysis and Physical Properties, Page 304.

Tolerances, Page 306.

B & S Gage	Size in Inches	Weight, lbs. per 1000 Feet	Feet per Pound
22	.0253	1.89	528
*20	.032	3.03	330
18	.0403	4.81	208
16	.0508	7.64	131
15	.0571	9.65	104.0
14	.0641	12.2	82.2

*Also carried in half hard temper.

WEIGHTS
DATA



BRONZE BUSHING STOCK

SEMI-FINISHED
TUBULAR BRONZE BARS



Cored—13" Lengths

ASTM B144—Alloy 3-B
SAE 660

TOLERANCES

INSIDE DIAMETER

Up to 4" Minus $\frac{1}{32}$ "
4" and Over Minus $\frac{1}{16}$ "

OUTSIDE DIAMETER

Up to 4" Plus $\frac{1}{32}$ "
4" and Over Plus $\frac{1}{16}$ "

Mach. I. D.	Mach. O. D.	Wt. Per Pc. Lbs.	Mach. I. D.	Mach. O. D.	Wt. Per Pc. Lbs.	Mach. I. D.	Mach. O. D.	Wt. Per Pc. Lbs.
$\frac{1}{2}x$	1	$2\frac{3}{4}$	$1\frac{1}{8}x$	$1\frac{5}{8}$	5	$1\frac{5}{8}x$	$2\frac{1}{8}$	7
	$1\frac{1}{8}$	$3\frac{3}{4}$		$1\frac{9}{16}$	$6\frac{1}{2}$		$2\frac{1}{4}$	$8\frac{3}{4}$
	$1\frac{1}{4}$	$4\frac{3}{4}$		$1\frac{7}{8}$	8		$2\frac{3}{8}$	$10\frac{1}{2}$
	$1\frac{3}{8}$	$5\frac{3}{4}$		2	$9\frac{1}{2}$		$2\frac{1}{2}$	12
	$1\frac{1}{2}$	7		$2\frac{1}{8}$	11		$2\frac{5}{8}$	$14\frac{3}{4}$
	$1\frac{3}{4}$	$9\frac{3}{4}$		$2\frac{1}{4}$	13		$2\frac{3}{4}$	17
	2	$12\frac{3}{4}$		$2\frac{3}{8}$	15		3	$21\frac{3}{4}$
				$2\frac{1}{2}$	17			
$\frac{5}{8}x$	$1\frac{1}{8}$	$3\frac{1}{4}$		$2\frac{3}{4}$	$21\frac{1}{4}$	$1\frac{3}{4}x$	$2\frac{1}{4}$	$7\frac{1}{4}$
	$1\frac{1}{4}$	$4\frac{1}{4}$		$2\frac{7}{8}$	$23\frac{1}{4}$		$2\frac{3}{8}$	$9\frac{1}{4}$
	$1\frac{3}{8}$	$5\frac{1}{4}$					$2\frac{1}{2}$	$11\frac{1}{2}$
	$1\frac{1}{2}$	$6\frac{1}{2}$					$2\frac{5}{8}$	$13\frac{1}{4}$
	$1\frac{5}{8}$	$7\frac{3}{4}$	$1\frac{1}{4}x$	$1\frac{3}{4}$	$5\frac{1}{4}$		$2\frac{3}{4}$	$15\frac{1}{2}$
	$1\frac{3}{4}$	$9\frac{1}{4}$		$1\frac{7}{8}$	7		$2\frac{7}{8}$	17
	2	$12\frac{1}{4}$		2	$8\frac{1}{2}$		3	$20\frac{1}{4}$
	$2\frac{1}{8}$	14		$2\frac{1}{8}$	$10\frac{1}{2}$		$3\frac{1}{4}$	$25\frac{1}{4}$
				$2\frac{1}{4}$	$12\frac{1}{4}$		$3\frac{1}{2}$	30
$\frac{3}{4}x$	$1\frac{1}{4}$	$3\frac{3}{4}$		$2\frac{3}{8}$	14		$3\frac{3}{4}$	36
	$1\frac{3}{8}$	$4\frac{3}{4}$		$2\frac{1}{2}$	18		4	$42\frac{1}{2}$
	$1\frac{1}{2}$	6		$2\frac{5}{8}$	18		$4\frac{1}{4}$	50
	$1\frac{5}{8}$	$7\frac{1}{4}$		$2\frac{3}{4}$	20	$1\frac{7}{8}x$	$2\frac{3}{8}$	8
	$1\frac{3}{4}$	$8\frac{1}{2}$		$2\frac{7}{8}$	$22\frac{1}{2}$		$2\frac{1}{2}$	$9\frac{3}{4}$
	$1\frac{7}{8}$	$10\frac{1}{4}$		3	25		$2\frac{3}{8}$	12
	2	$11\frac{3}{4}$		$3\frac{1}{4}$	30		$2\frac{3}{4}$	14
	$2\frac{1}{8}$	$13\frac{1}{2}$		$3\frac{1}{2}$	35		$2\frac{1}{8}$	$16\frac{1}{4}$
	$2\frac{1}{4}$	$15\frac{1}{4}$		4	47		3	19
	$2\frac{1}{2}$	$19\frac{1}{4}$					$3\frac{1}{4}$	24
	$2\frac{3}{4}$	$23\frac{1}{2}$						
			$1\frac{3}{8}x$	$1\frac{7}{8}$	6	$2x$	$2\frac{1}{2}$	$8\frac{1}{4}$
$\frac{7}{8}x$	$1\frac{3}{8}$	$4\frac{1}{4}$		2	$7\frac{1}{2}$		$2\frac{5}{8}$	$10\frac{1}{2}$
	$1\frac{1}{2}$	$5\frac{1}{2}$		$2\frac{1}{8}$	9		$2\frac{3}{4}$	12
	$1\frac{5}{8}$	$6\frac{1}{2}$		$2\frac{1}{4}$	11		$2\frac{7}{8}$	15
	$1\frac{3}{4}$	8		$2\frac{3}{8}$	13		3	$17\frac{1}{4}$
	$1\frac{7}{8}$	$9\frac{1}{2}$		$2\frac{1}{2}$	15		$3\frac{1}{4}$	$22\frac{1}{2}$
	2	$11\frac{1}{4}$		$2\frac{5}{8}$	$16\frac{3}{4}$		$3\frac{1}{2}$	28
	$2\frac{1}{8}$	$12\frac{1}{2}$		$2\frac{3}{4}$	$19\frac{1}{4}$		$3\frac{3}{4}$	34
	$2\frac{1}{4}$	$14\frac{3}{4}$		3	$24\frac{1}{4}$		4	40
							$4\frac{1}{2}$	$53\frac{1}{2}$
$1x$	$1\frac{1}{2}$	$4\frac{3}{4}$					5	69
	$1\frac{5}{8}$	6	$1\frac{1}{2}x$	2	$6\frac{1}{2}$		6	107
	$1\frac{3}{4}$	$7\frac{1}{4}$		$2\frac{1}{8}$	$8\frac{1}{4}$	$2\frac{1}{8}x$	$2\frac{5}{8}$	9
	$1\frac{7}{8}$	$8\frac{3}{4}$		$2\frac{1}{4}$	$9\frac{3}{4}$		$2\frac{3}{4}$	11
	2	$10\frac{1}{2}$		$2\frac{3}{8}$	12		$2\frac{7}{8}$	13
	$2\frac{1}{8}$	12		$2\frac{1}{2}$	$13\frac{3}{4}$		3	$15\frac{1}{2}$
	$2\frac{1}{4}$	14		$2\frac{5}{8}$	16		$3\frac{1}{4}$	21
	$2\frac{3}{8}$	16		$2\frac{3}{4}$	18		$3\frac{1}{2}$	$26\frac{1}{2}$
	$2\frac{1}{2}$	$17\frac{3}{4}$		3	23		$3\frac{3}{4}$	$32\frac{1}{2}$
	$2\frac{3}{4}$	$21\frac{3}{4}$		$3\frac{1}{4}$	$27\frac{3}{4}$	$2\frac{1}{4}x$	$2\frac{3}{4}$	$9\frac{1}{4}$
	3	$26\frac{3}{4}$		$3\frac{1}{2}$	32		$2\frac{7}{8}$	$11\frac{1}{2}$
	$3\frac{1}{4}$	$32\frac{1}{4}$		$3\frac{3}{4}$	$39\frac{1}{2}$		3	14
	$3\frac{1}{2}$	37		4	45			
	4	50		$4\frac{1}{2}$	59		$3\frac{1}{8}$	$16\frac{1}{2}$

(Continued on following page)

**BRONZE BUSHING STOCK****SEMI-FINISHED
TUBULAR BRONZE BARS**

Cored—13" Lengths
 ASTM B144—Alloy 3-B
 SAE 660

TOLERANCES**INSIDE DIAMETER**

Up to 4" Minus $\frac{1}{32}$ "
 4" and Over Minus $\frac{1}{16}$ "

OUTSIDE DIAMETER

Up to 4" Plus $\frac{1}{32}$ "
 4" and Over Plus $\frac{1}{16}$ "

(Continued from preceding page)

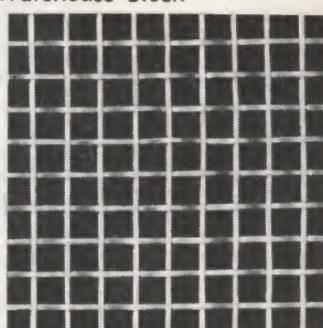
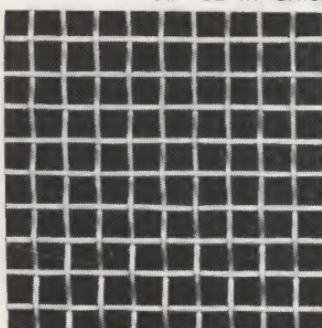
Mach. I. D.	Mach. O. D.	Wt. Per Pc. Lbs.	Mach. I. D.	Mach. O. D.	Wt. Per Pc. Lbs.	Mach. I. D.	Mach. O. D.	Wt. Per Pc. Lbs.
2 $\frac{1}{4}$ x	3 $\frac{1}{4}$	19	2 $\frac{3}{4}$ x	4 $\frac{1}{4}$	34 $\frac{1}{2}$	4x	5 $\frac{1}{2}$	49
	3 $\frac{1}{2}$	24 $\frac{1}{2}$		4 $\frac{1}{2}$	43		6	67
	3 $\frac{3}{4}$	31		4 $\frac{3}{4}$	50		6 $\frac{1}{2}$	87
	4	36		2 $\frac{7}{8}$ x	4		7	109
	4 $\frac{1}{4}$	42 $\frac{1}{2}$		3 x	3 $\frac{3}{4}$		7 $\frac{1}{2}$	134
	2 $\frac{7}{8}$ x	9 $\frac{1}{2}$		4	24		4 $\frac{1}{4}$ x	6
	3	12 $\frac{1}{4}$		4 $\frac{1}{4}$	30 $\frac{1}{2}$		6 $\frac{1}{2}$	82
	3 $\frac{1}{4}$	17		4 $\frac{1}{2}$	38		4 $\frac{1}{2}$ x	75
	3 $\frac{1}{2}$	23		4 $\frac{3}{4}$	45 $\frac{1}{2}$		7	97
	3 $\frac{3}{4}$	28 $\frac{1}{2}$		5	54			
2 $\frac{1}{2}$ x	4	35 $\frac{1}{2}$		5 $\frac{1}{2}$	70	4 $\frac{3}{4}$ x	6 $\frac{1}{2}$	67
	3 $\frac{1}{8}$	13		6	89		7	89
	3 $\frac{1}{4}$	15		6 $\frac{1}{2}$	110			
	3 $\frac{1}{2}$	21	3 $\frac{1}{4}$ x	4 $\frac{1}{4}$	25 $\frac{1}{2}$		5x	39
	3 $\frac{3}{4}$	27		4 $\frac{1}{2}$	32 $\frac{1}{2}$		7	81
	4	33		4 $\frac{3}{4}$	40		7 $\frac{1}{2}$	104
	4 $\frac{1}{4}$	40		5	48		8	130
	4 $\frac{1}{2}$	47		5 $\frac{1}{2}$	64		5 $\frac{1}{4}$ x	97
	4 $\frac{3}{4}$	54		5	64		7 $\frac{1}{2}$	
	5	60		3 $\frac{1}{2}$ x	4 $\frac{1}{2}$		5 $\frac{1}{2}$ x	91
	5 $\frac{1}{2}$	80		4 $\frac{3}{4}$	35		8	113
	6	100		5	43			
2 $\frac{5}{8}$ x	3 $\frac{1}{2}$	18 $\frac{3}{4}$		5 $\frac{1}{2}$	60	5 $\frac{3}{4}$ x	7 $\frac{1}{2}$	79
	3 $\frac{3}{4}$	25		6	80		8 $\frac{1}{2}$	132
	4	30 $\frac{3}{4}$	3 $\frac{3}{4}$ x	4 $\frac{3}{4}$	29		6x	94
	4 $\frac{1}{2}$	42 $\frac{1}{4}$		5	37		9	151
2 $\frac{3}{4}$ x	3 $\frac{3}{4}$	22 $\frac{1}{4}$		5 $\frac{1}{2}$	56	6 $\frac{1}{2}$ x	9	130
	4	28		6	73			

BRONZE BUSHING STOCK**SEMI-FINISHED
SOLID BRONZE BARS**

Solid—13" Lengths
 ASTM B144—Alloy 3-B
 SAE 660

Mach. O.D.	Approx. Weight (Lbs.)	Mach. O.D.	Approx. Weight (Lbs.)	Mach. O.D.	Approx. Weight (Lbs.)
$\frac{1}{2}$	1	2 $\frac{1}{4}$	17	4	51
$\frac{5}{8}$	1 $\frac{1}{2}$	2 $\frac{3}{8}$	19		
$\frac{3}{4}$	2	2 $\frac{1}{2}$	21	4 $\frac{1}{4}$	57
$\frac{7}{8}$	2 $\frac{3}{4}$	2 $\frac{3}{8}$	22 $\frac{1}{2}$	4 $\frac{1}{2}$	62
1	3 $\frac{1}{2}$	2 $\frac{3}{4}$	25	4 $\frac{3}{4}$	74
1 $\frac{1}{8}$	4 $\frac{1}{2}$	2 $\frac{7}{8}$	27	5	78
1 $\frac{1}{4}$	5 $\frac{1}{2}$	3	30	5 $\frac{1}{2}$	97
1 $\frac{3}{8}$	6 $\frac{1}{2}$			6	117
1 $\frac{1}{2}$	8	3 $\frac{1}{4}$	34	6 $\frac{1}{2}$	139
1 $\frac{5}{8}$	9			7	162
1 $\frac{3}{4}$	10 $\frac{1}{4}$	3 $\frac{1}{2}$	40	7 $\frac{1}{2}$	186
1 $\frac{7}{8}$	11 $\frac{1}{2}$			8	211
2	13 $\frac{1}{2}$	3 $\frac{3}{4}$	45		
2 $\frac{1}{8}$	15				

WIRE MESH
STANDARD MESH WIRE CLOTH
 Rolls 36" Wide—100' Long
 Carried in Chicago Warehouse Stock



Mesh	Aluminum		Brass		Type 304 Stainless		Monel Metal	
	Wire Dia.	Wt. Per Sq. Ft.	Wire Dia.	Wt. Per Sq. Ft.	Wire Dia.	Wt. Per Sq. Ft.	Wire Dia.	Wt. Per Sq. Ft.
2	.063	.175	.063	.566	.063	.517	.063	.574
4	.047	.197	.047	.637	.041	.440	.041	.489
6	.035	.164	.035	.532	.035	.486	.035	.540
8	—	—	.028	.454	.028	.415	.028	.461
10	.025	.141	.025	.455	.025	.416	.025	.462
14	—	—	—	—	.020	.376	—	—
20	—	—	.016	.380	.016	.347	.015	.338
30	—	—	.012	.325	.012	.297	—	—
40	—	—	—	—	—	—	.010	.310
50	—	—	—	—	—	—	.009	.319
60	—	—	—	—	—	—	.0075	.266
80	—	—	—	—	.0055	.171	—	—
100	—	—	—	—	—	—	.0045	.159

All meshes and sizes in Aluminum, Brass, Bronze, Copper, Monel, Nickel, Inconel and Stainless, are also available promptly from stock.

The mesh in wire cloth denotes the number of wires in a linear inch measured from center to center of wires. Both wires, the warp and the shute, should be gauged and the mesh of the cloth counted before ordering.

Strainers, Baskets, Screen Cloth and fabricated parts to fit your requirements. Blueprints or sketches showing dimensions and quantities desired enable us to give you prompt quotations to your exact specifications. Wire Cloth Catalog furnished on request.

LEKTROMESH—An electrolytically deposited mesh which is wireless, and produced in sizes equivalent to 25 to 400 mesh, with controlled uniform hole size in Nickel, Copper and Copper Nickel.



WIRE ROPE

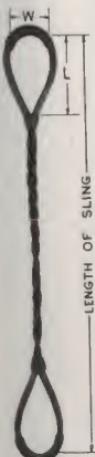


6 Strands, 19 Wires Per Strand

Diameter in Inches	Fiber Core		Independent Wire Rope Core	
	Breaking Strength in Tons	Weight per Ft. in Lbs.	Breaking Strength in Tons	Weight per Ft. in Lbs.
$\frac{3}{16}$	1.55	.056	1.67	.062
$\frac{1}{4}$	2.74	.10	2.94	.11
$\frac{5}{16}$	4.26	.16	4.58	.18
$\frac{3}{8}$	6.10	.23	6.56	.25
$\frac{7}{16}$	8.27	.31	8.89	.34
$\frac{1}{2}$	10.7	.40	11.5	.44
$\frac{9}{16}$	13.5	.51	14.5	.56
$\frac{5}{8}$	16.7	.63	17.9	.69
$\frac{3}{4}$	23.8	.90	25.6	.99
$\frac{7}{8}$	32.2	1.23	34.6	1.35
1	41.8	1.60	44.9	1.76
$1\frac{1}{8}$	52.6	2.03	56.5	2.23
$1\frac{1}{4}$	64.6	2.50	69.4	2.75
$1\frac{3}{8}$	77.7	3.03	83.5	3.33
$1\frac{1}{2}$	92.	3.60	98.9	3.96
$1\frac{5}{8}$	107.	4.23	115.	4.65
$1\frac{3}{4}$	124.	4.90	133.	5.39
$1\frac{7}{8}$	141.	5.63	152.	6.19
2	160.	6.40	172.	7.04
$2\frac{1}{8}$	179.	7.23	192.	7.95
$2\frac{1}{4}$	200.	8.10	215.	8.91
$2\frac{1}{2}$	244.	10.00	262.	11.00
$2\frac{3}{4}$	292.	12.10	314.	13.31

Other constructions available promptly from stock

SLINGS



Slings of all types are available for every type of lift regardless of weight. We offer our engineering facilities for your particular requirements.

Catalogues available on request



CIRCUMFERENCE AND AREA OF STEEL CIRCLES



Diameter in Inches	Circumference in Ft.	Area Sq. Ft.	Diameter in Inches	Circumference in Ft.	Area Sq. Ft.
1/16	13/64		7 1/8	1	10 3/8 .2763
1/8	25/64		7 1/4	1	10 3/4 .2867
3/16	19/32		7 5/8	1	11 1/8 .2966
1/4	25/32		7 1/2	1	11 1/2 .3068
5/16	63/64		7 5/8	1	11 15/16 .3164
3/8	111/64		7 7/8	2	5 1/16 .3275
7/16	1 3/8		8	2	11/16 .3382
1/2	1 37/64		8 1/8	2	1 1/8 .3491
9/16	149/64		8 1/4	2	1 1/2 .3601
5/8	1 15/16		8 3/8	2	1 7/8 .3712
11/16	25/32		8 1/2	2	2 1/4 .3826
3/4	223/64		8 5/8	2	2 11/16 .3941
13/16	235/64		8 3/4	2	3 1/16 .4057
7/8	2 3/4		8 7/8	2	3 7/16 .4176
15/16	2 15/16		9	2	3 7/8 .4296
1	3 9/64	.0055	9	2	4 1/4 .4418
1 1/8	3 1/2	.0069	9 1/8	2	4 5/8 .4541
1 1/4	3 7/8	.0085	9 1/4	2	5 .4667
1 3/8	4 5/16	.0103	9 3/8	2	5 7/16 .4794
1 1/2	4 11/16	.0123	9 1/2	2	5 13/16 .4922
1 5/8	5 1/16	.0144	9 5/8	2	6 3/16 .5053
1 3/4	5 7/16	.0167	9 3/4	2	6 5/8 .5185
1 7/8	5 7/8	.0192	9 7/8	2	7 .5319
2	6 1/4	.0218	10	2	7 3/8 .5454
2 1/8	6 5/8	.0246	10 1/8	2	7 3/4 .5591
2 1/4	7	.0276	10 1/4	2	8 3/16 .5730
2 3/8	7 7/16	.0308	10 3/8	2	8 9/16 .5871
2 1/2	7 13/16	.0341	10 1/2	2	8 15/16 .6013
2 5/8	8 3/16	.0376	10 5/8	2	9 3/8 .6157
2 3/4	8 5/8	.0412	10 3/4	2	9 3/4 .6303
2 7/8	9	.0451	10 7/8	2	10 1/8 .6450
3	9 3/8	.0491	11	2	10 1/2 .6600
3 1/8	9 13/16	.0533	11 1/8	2	10 13/16 .6750
3 1/4	10 3/16	.0576	11 1/4	2	11 5/16 .6902
3 3/8	10 9/16	.0621	11 3/8	2	11 11/16 .7057
3 1/2	10 15/16	.0668	11 1/2	3	1 8/16 .7213
3 5/8	11 3/8	.0717	11 5/8	3	1/2 .7371
3 3/4	11 3/4	.0767	11 3/4	3	7/8 .7530
3 7/8	1 1/8	.0819	11 7/8	3	1 1/4 .7690
4	1 9/16	.0873	12	3	1 11/16 .7854
4 1/8	1 15/16	.0928	12 1/8	3	2 1/16 .8019
4 1/4	1 15/16	.0985	12 1/4	3	2 7/16 .8185
4 3/8	1 11/16	.1044	12 3/8	3	2 7/8 .8353
4 1/2	2 1/8	.1104	12 1/2	3	3 1/4 .8523
4 5/8	2 1/2	.1167	12 5/8	3	3 5/8 .8694
4 3/4	2 7/8	.1230	12 3/4	3	4 .8867
4 7/8	3 5/16	.1237	12 7/8	3	4 7/16 .9041
5	3 11/16	.1364	13	3	4 13/16 .9218
5 1/8	4 1/16	.1433	13 1/8	3	5 3/16 .9396
5 1/4	4 7/16	.1503	13 1/4	3	5 5/8 .9576
5 3/8	4 7/8	.1575	13 3/8	3	6 .9757
5 1/2	5 1/4	.1650	13 1/2	3	6 3/8 .9940
5 5/8	5 5/8	.1726	13 5/8	3	6 3/4 .1013
5 3/4	6	.1803	13 3/4	3	7 3/16 .1031
5 7/8	6 7/16	.1883	13 7/8	3	7 9/16 .1050
6	6 13/16	.1964	14	3	7 15/16 .1069
6 1/8	7 3/16	.2046	14 1/8	3	8 3/8 .1088
6 1/4	7 5/8	.2131	14 1/4	3	8 3/4 .1108
6 3/8	8	.2217	14 3/8	3	9 1/8 .1127
6 1/2	8 3/8	.2304	14 1/2	3	9 1/2 .1147
6 5/8	8 3/4	.2394	14 5/8	3	9 15/16 .1167
6 3/4	9 3/16	.2485	14 3/4	3	10 5/16 .1187
6 7/8	9 9/16	.2578	14 7/8	3	10 11/16 .1207
7	1 9 15/16	.2673	15	3	11 1/16 .1227

(Continued on following page)

CIRCUMFERENCE AND AREA OF STEEL CIRCLES

(Continued from preceding page)

Diameter in Inches	Circumference in Ft. In.	Area Sq. Ft.	Diameter in Inches	Circumference in Ft. In.	Area Sq. Ft.		
15 $\frac{1}{8}$	3	11 $\frac{1}{2}$	1.248	23	6	$\frac{1}{4}$	2.885
15 $\frac{3}{4}$	3	11 $\frac{7}{8}$	1.268	23 $\frac{1}{8}$	6	$\frac{5}{8}$	2.917
15 $\frac{3}{8}$	4	1 $\frac{1}{4}$	1.289	23 $\frac{3}{4}$	6	1	2.948
15 $\frac{1}{2}$	4	5 $\frac{5}{8}$	1.310	23 $\frac{3}{8}$	6	$1\frac{3}{8}$	2.980
15 $\frac{5}{8}$	4	1 $\frac{1}{16}$	1.332	23 $\frac{1}{2}$	6	$1\frac{3}{16}$	3.012
15 $\frac{3}{4}$	4	1 $\frac{1}{2}$	1.353	23 $\frac{5}{8}$	6	$2\frac{3}{16}$	3.044
15 $\frac{1}{8}$	4	1 $\frac{15}{16}$	1.375	23 $\frac{3}{4}$	6	$2\frac{9}{16}$	3.076
16	4	2 $\frac{1}{4}$	1.396	23 $\frac{7}{8}$	6	3	3.109
16 $\frac{1}{8}$	4	2 $\frac{5}{8}$	1.418	24	6	$3\frac{3}{8}$	3.141
16 $\frac{1}{4}$	4	3	1.440	24 $\frac{1}{4}$	6	$4\frac{1}{8}$	3.207
16 $\frac{3}{8}$	4	3 $\frac{7}{16}$	1.463	24 $\frac{1}{2}$	6	$4\frac{15}{16}$	3.274
16 $\frac{1}{2}$	4	3 $\frac{13}{16}$	1.485	24 $\frac{3}{4}$	6	$5\frac{3}{4}$	3.341
16 $\frac{5}{8}$	4	4 $\frac{1}{4}$	1.508	25	6	$6\frac{1}{2}$	3.408
16 $\frac{3}{4}$	4	4 $\frac{5}{8}$	1.530	25 $\frac{1}{4}$	6	$7\frac{5}{16}$	3.477
16 $\frac{7}{8}$	4	5	1.553	25 $\frac{1}{2}$	6	$8\frac{1}{16}$	3.546
17	4	5 $\frac{3}{8}$	1.576	25 $\frac{3}{4}$	6	$8\frac{7}{8}$	3.616
17 $\frac{1}{8}$	4	5 $\frac{3}{4}$	1.599	26	6	$9\frac{5}{8}$	3.687
17 $\frac{3}{4}$	4	6 $\frac{3}{16}$	1.623	26 $\frac{1}{4}$	6	$10\frac{7}{16}$	3.758
17 $\frac{3}{8}$	4	6 $\frac{9}{16}$	1.647	26 $\frac{1}{2}$	6	$11\frac{1}{4}$	3.830
17 $\frac{1}{2}$	4	6 $\frac{15}{16}$	1.670	26 $\frac{3}{4}$	7	..	3.900
17 $\frac{5}{8}$	4	7 $\frac{5}{16}$	1.694	27	7	$13\frac{1}{16}$	3.976
17 $\frac{3}{4}$	4	7 $\frac{3}{4}$	1.712	27 $\frac{1}{4}$	7	$1\frac{1}{16}$	4.050
17 $\frac{7}{8}$	4	8 $\frac{1}{8}$	1.743	27 $\frac{1}{2}$	7	$2\frac{3}{8}$	4.125
18	4	8 $\frac{1}{2}$	1.767	27 $\frac{3}{4}$	7	$3\frac{1}{8}$	4.200
18 $\frac{1}{8}$	4	8 $\frac{15}{16}$	1.792	28	7	$3\frac{15}{16}$	4.276
18 $\frac{1}{4}$	4	9 $\frac{9}{16}$	1.817	28 $\frac{1}{4}$	7	$4\frac{11}{16}$	4.353
18 $\frac{3}{8}$	4	9 $\frac{3}{4}$	1.842	28 $\frac{1}{2}$	7	$5\frac{1}{2}$	4.430
18 $\frac{1}{2}$	4	10 $\frac{1}{16}$	1.866	28 $\frac{3}{4}$	7	$6\frac{1}{4}$	4.508
18 $\frac{5}{8}$	4	10 $\frac{1}{2}$	1.892	29	7	$7\frac{1}{16}$	4.586
18 $\frac{3}{4}$	4	10 $\frac{7}{8}$	1.918	29 $\frac{1}{4}$	7	$7\frac{7}{8}$	4.666
18 $\frac{7}{8}$	4	11 $\frac{1}{4}$	1.943	29 $\frac{1}{2}$	7	$8\frac{5}{8}$	4.746
19	4	11 $\frac{5}{8}$	1.968	29 $\frac{3}{4}$	7	$9\frac{7}{16}$	4.827
19 $\frac{1}{8}$	5	$\frac{1}{16}$	1.995	30	7	$10\frac{3}{16}$	4.908
19 $\frac{1}{4}$	5	$\frac{7}{16}$	2.021	30 $\frac{1}{4}$	7	11	4.990
19 $\frac{3}{8}$	5	$\frac{13}{16}$	2.047	30 $\frac{1}{2}$	7	$11\frac{1}{16}$	5.073
19 $\frac{1}{2}$	5	$\frac{11}{4}$	2.074	30 $\frac{3}{4}$	8	$\frac{9}{16}$	5.157
19 $\frac{5}{8}$	5	$\frac{1}{8}$	2.100	31	8	$1\frac{3}{8}$	5.241
19 $\frac{3}{4}$	5	2	2.127	31 $\frac{1}{4}$	8	$2\frac{1}{8}$	5.326
19 $\frac{7}{8}$	5	$2\frac{7}{16}$	2.154	31 $\frac{1}{2}$	8	$2\frac{15}{16}$	5.412
20	5	$2\frac{13}{16}$	2.181	31 $\frac{3}{4}$	8	$3\frac{1}{16}$	5.498
20 $\frac{1}{8}$	5	$\frac{3}{16}$	2.209	32	8	$4\frac{1}{2}$	5.585
20 $\frac{1}{4}$	5	$\frac{3}{8}$	2.237	32 $\frac{1}{4}$	8	$5\frac{5}{16}$	5.672
20 $\frac{3}{8}$	5	4	2.264	32 $\frac{1}{2}$	8	$6\frac{1}{16}$	5.760
20 $\frac{1}{2}$	5	$4\frac{3}{8}$	2.292	32 $\frac{3}{4}$	8	$6\frac{7}{8}$	5.849
20 $\frac{5}{8}$	5	$4\frac{4}{4}$	2.320	33	8	$7\frac{5}{8}$	5.939
20 $\frac{3}{4}$	5	$\frac{5}{16}$	2.348	33 $\frac{1}{4}$	8	$8\frac{7}{16}$	6.029
20 $\frac{7}{8}$	5	$\frac{5}{16}$	2.377	33 $\frac{1}{2}$	8	$9\frac{9}{16}$	6.121
21	5	$5\frac{15}{16}$	2.405	33 $\frac{3}{4}$	8	10	6.212
21 $\frac{1}{8}$	5	$6\frac{5}{16}$	2.434	34	8	$10\frac{13}{16}$	6.305
21 $\frac{1}{4}$	5	$6\frac{3}{4}$	2.463	34 $\frac{1}{4}$	8	$11\frac{9}{16}$	6.398
21 $\frac{3}{8}$	5	$7\frac{1}{8}$	2.492	34 $\frac{1}{2}$	9	$\frac{3}{8}$	6.490
21 $\frac{1}{2}$	5	$7\frac{1}{2}$	2.521	34 $\frac{3}{4}$	9	$1\frac{1}{8}$	6.581
21 $\frac{5}{8}$	5	$7\frac{7}{8}$	2.551	35	9	$1\frac{15}{16}$	6.681
21 $\frac{3}{4}$	5	$8\frac{5}{16}$	2.580	35 $\frac{1}{4}$	9	$2\frac{11}{16}$	6.771
21 $\frac{7}{8}$	5	$8\frac{11}{16}$	2.607	35 $\frac{1}{2}$	9	$3\frac{1}{2}$	6.873
22	5	$9\frac{1}{16}$	2.639	35 $\frac{3}{4}$	9	$4\frac{1}{4}$	6.970
22 $\frac{1}{8}$	5	$9\frac{1}{2}$	2.670	36	9	$5\frac{1}{16}$	7.068
22 $\frac{1}{4}$	5	$9\frac{7}{8}$	2.700	36 $\frac{1}{4}$	9	$5\frac{7}{8}$	7.167
22 $\frac{3}{8}$	5	$10\frac{1}{4}$	2.730	36 $\frac{1}{2}$	9	$6\frac{5}{8}$	7.266
22 $\frac{1}{2}$	5	$10\frac{5}{8}$	2.761	36 $\frac{3}{4}$	9	$7\frac{7}{16}$	7.361
22 $\frac{5}{8}$	5	$11\frac{11}{16}$	2.792	37	9	$8\frac{3}{16}$	7.466
22 $\frac{3}{4}$	5	$11\frac{11}{16}$	2.823	37 $\frac{1}{4}$	9	9	7.568
22 $\frac{7}{8}$	5	$11\frac{13}{16}$	2.854	37 $\frac{1}{2}$	9	$9\frac{3}{4}$	7.670

(Continued on following page)



CIRCUMFERENCE AND AREA OF STEEL CIRCLES



(Continued from preceding page)

Diameter in Inches	Circumference in Ft. In.	Area Sq. Ft.	Diameter in Inches	Circumference in Ft. In.	Area Sq. Ft.
37 3/4	9 10 9/16	7.770	53 1/2	14 1 1/16	15.611
38	9 11 3/8	7.875	53 3/4	14 13/16	15.757
38 1/4	10 1 1/8	7.979	54	14 1 5/8	15.904
38 1/2	10 15/16	8.081	54 1/4	14 2 3/8	16.052
38 3/4	10 11 11/16	8.189	54 1/2	14 3 3/16	16.200
39	10 2 1/2	8.295	54 3/4	14 4	16.349
39 1/4	10 3 1/4	8.403	55	14 4 3/4	16.499
39 1/2	10 4 1/16	8.509	55 1/4	14 5 9/16	16.649
39 3/4	10 4 7/8	8.618	55 1/2	14 6 5/16	16.800
40	10 5 5/8	8.726	55 3/4	14 7 1/8	16.952
40 1/4	10 6 7/16	8.831	56	14 7 7/8	17.104
40 1/2	10 7 3/16	8.941	56 1/4	14 8 11/16	17.257
40 3/4	10 8	9.051	56 1/2	14 9 1/2	17.411
41	10 8 3/4	9.168	56 3/4	14 10 1/4	17.565
41 1/4	10 9 9/16	9.280	57	14 11 1/16	17.721
41 1/2	10 10 3/8	9.391	57 1/4	14 11 13/16	17.876
41 3/4	10 11 1/8	9.501	57 1/2	15 5/8	18.032
42	10 11 15/16	9.621	57 3/4	15 1 3/8	18.190
42 1/4	11 11/16	9.736	58	15 2 3/16	18.348
42 1/2	11 1 1/2	9.851	58 1/4	15 2 15/16	18.506
42 3/4	11 2 1/4	9.968	58 1/2	15 3 3/4	18.665
43	11 3 1/16	10.084	58 3/4	15 4 9/16	18.825
43 1/4	11 3 13/16	10.202	59	15 5 5/16	18.986
43 1/2	11 4 5/8	10.320	59 1/4	15 6 1/8	19.147
43 3/4	11 5 3/8	10.439	59 1/2	15 6 7/8	19.309
44	11 6 3/16	10.559	59 3/4	15 7 11/16	19.471
44 1/4	11 7	10.679	60	15 8 7/16	19.635
44 1/2	11 7 3/4	10.800	60 1/4	15 9 1/4	19.799
44 3/4	11 8 9/16	10.922	60 1/2	15 10 1/16	19.964
45	11 9 3/8	11.044	60 3/4	15 10 13/16	20.129
45 1/4	11 10 1/8	11.161	61	15 11 5/8	20.295
45 1/2	11 10 15/16	11.290	61 1/4	16 3/8	20.462
45 3/4	11 11 11/16	11.415	61 1/2	16 1 3/16	20.623
46	12 1/2	11.540	61 3/4	16 1 15/16	20.797
46 1/4	12 1 1/4	11.666	62	16 2 3/4	20.966
46 1/2	12 2 1/16	11.793	62 1/4	16 3 9/16	21.135
46 3/4	12 2 13/16	11.920	62 1/2	16 4 5/16	21.306
47	12 3 5/8	12.048	62 3/4	16 5 1/8	21.476
47 1/4	12 4 7/16	12.177	63	16 5 7/8	21.648
47 1/2	12 5 3/16	12.306	63 1/4	16 6 11/16	21.819
47 3/4	12 6	12.436	64 1/2	16 7 7/16	21.992
48	12 6 3/4	12.566	64 3/4	16 8 1/4	22.166
48 1/4	12 7 9/16	12.697	64	16 9	22.340
48 1/2	12 8 15/16	12.829	64 1/4	16 9 13/16	22.515
48 3/4	12 9 1/8	12.961	64 1/2	16 10 5/8	22.695
49	12 9 15/16	13.095	64 3/4	16 11 3/8	22.867
49 1/4	12 10 11/16	13.229	65	17 3/16	23.044
49 1/2	12 11 1/2	13.363	65 1/4	17 15/16	23.222
49 3/4	13 1/4	13.499	65 1/2	17 1 3/4	23.400
50	13 1 1/16	13.635	65 3/4	17 2 1/2	23.578
50 1/4	13 1 13/16	13.772	66	17 3 5/16	23.758
50 1/2	13 2 5/8	13.909	66 1/4	17 4 1/8	23.939
50 3/4	13 3 3/8	14.047	66 1/2	17 4 7/8	24.119
51	13 4 3/16	14.186	66 3/4	17 5 11/16	24.307
51 1/4	13 5	14.325	67	17 6 7/16	24.484
51 1/2	13 5 3/4	14.465	67 1/4	17 7 1/4	24.667
51 3/4	13 6 9/16	14.606	67 1/2	17 8	24.851
52	13 7 5/16	14.748	67 3/4	17 8 13/16	25.035
52 1/4	13 8 1/8	14.890	68	17 9 5/8	25.220
52 1/2	13 8 7/8	15.033	68 1/4	17 10 3/8	25.406
52 3/4	13 9 11/16	15.176	68 1/2	17 11 3/16	25.592
53	13 10 1/2	15.320	68 3/4	17 11 15/16	25.779
53 1/4	13 11 1/4	15.465	69	18 3/4	25.967

(Continued on following page)

CIRCUMFERENCE AND AREA OF STEEL CIRCLES

(Continued from preceding page)

Diameter in Inches	Circumference in Ft.	Area Sq. Ft.	Diameter in Inches	Circumference in Ft.	Area Sq. Ft.		
	In.			In.			
69 1/4	18	1 1/2	26.156	93 1/2	24	51 1/16	47.681
69 1/2	18	2 5/16	26.345	94	24	7 1/4	48.193
69 3/4	18	3 1/8	26.535	94 1/2	24	8 7/8	48.707
70	18	3 7/8	26.725	95	24	10 7/16	49.224
70 1/4	18	4 1 1/16	26.920	95 1/2	25		49.743
70 1/2	18	5 7/16	27.110	96	25	1 9/16	50.265
70 3/4	18	6 1/4	27.301	96 1/2	25	3 1/8	50.790
71	18	7	27.494	97	25	4 1 1/16	51.318
71 1/4	18	7 1 3/16	27.690	97 1/2	25	6 1/4	51.849
71 1/2	18	8 9/16	27.881	98	25	7 7/8	52.382
71 3/4	18	9 3/8	28.080	98 1/2	25	9 7/16	52.917
72	18	10 3/16	28.274	99	25	11	53.456
72 1/2	18	11 3/4	28.670	99 1/2	26	9/16	53.997
73	19	1 5/16	29.065	100	26	2 1/8	54.542
73 1/2	19	2 7/8	29.465	100 1/2	26	3 1 1/16	55.088
74	19	4 7/16	29.867	101	26	5 1/4	55.638
74 1/2	19	6	30.272	101 1/2	26	6 13/16	56.191
75	19	7 7/16	30.680	102	26	8 7/16	56.745
75 1/2	19	9 3/16	31.090	102 1/2	26	10	57.303
76	19	10 3/4	31.503	103	26	11 9/16	57.863
76 1/2	20	5/16	31.920	103 1/2	27	1 1/8	58.427
77	20	1 7/8	32.338	104	27	2 11/16	58.992
77 1/2	20	3 7/16	32.759	104 1/2	27	4 1/4	59.562
78	20	5	33.183	105	27	5 13/16	60.132
78 1/2	20	6 9/16	33.610	105 1/2	27	7 7/16	60.705
79	20	8 1/8	34.039	106	27	9	61.283
79 1/2	20	9 3/4	34.472	106 1/2	27	10 9/16	61.861
80	20	11 5/16	34.907	107	28	1/8	62.446
80 1/2	21	7/8	35.344	107 1/2	28	1 11/16	63.030
81	21	2 7/16	35.785	108	28	3 1/4	63.617
81 1/2	21	4	36.228	108 1/2	28	4 13/16	64.208
82	21	5 9/16	36.674	109	28	6 3/8	64.801
82 1/2	21	7 1/8	37.122	109 1/2	28	8	65.396
83	21	8 3/4	37.574	110	28	9 9/16	65.995
83 1/2	21	10 9/16	38.028	110 1/2	28	11 1/8	66.596
84	21	11 7/8	38.485	111	29	1 1/16	67.201
84 1/2	22	1 7/16	38.944	111 1/2	29	2 3/4	67.808
85	22	3	39.406	112	29	3 13/16	68.417
85 1/2	22	4 9/16	39.872	112 1/2	29	5 3/8	69.030
86	22	6 1/8	40.339	113	29	7	69.644
86 1/2	22	7 11/16	40.809	113 1/2	29	8 9/16	70.262
87	22	9 5/16	41.282	114	29	10 1/8	70.882
87 1/2	22	10 7/8	41.758	114 1/2	29	11 11/16	71.506
88	23	7/16	42.237	115	30	1 1/4	72.131
88 1/2	23	2	42.718	115 1/2	30	2 13/16	72.759
89	23	3 9/16	43.202	116	30	4 3/8	73.391
89 1/2	23	5 1/8	43.689	116 1/2	30	5 15/16	74.026
90	23	6 11/16	44.177	117	30	7 9/16	74.662
90 1/2	23	8 5/16	44.671	117 1/2	30	9 1/8	75.301
91	23	9 7/8	45.166	118	30	10 11/16	75.944
91 1/2	23	11 7/16	45.663	118 1/2	31	1 1/4	76.589
92	24	1	46.164	119	31	1 13/16	77.236
92 1/2	24	1 9/16	46.667	119 1/2	31	3 3/8	77.887
93	24	4 1/8	47.173	120	31	4 15/16	78.540



WEIGHT OF ROUND STEEL PER INCH



OF LENGTH

Diam.	Lbs.	Diam.	Lbs.	Diam.	Lbs.	Diam.	Lbs.
0		2		5		8	
1-16	.0009	13-16	1.76	9-16	6.89	3-16	14.92
1-8	.0035	7-8	1.84	5-8	7.04	1-4	15.15
3-16	.0078	15-16	1.92	11-16	7.20	5-16	15.38
1-4	.014			3-4	7.36	3-8	15.61
5-16	.022			13-16	7.52	7-16	15.84
3-8	.031		2.00	7-8	7.68	1-2	16.08
7-16	.043	1-16	2.09	15-16	7.85	9-16	16.32
1-2	.056	1-8	2.17			5-8	16.55
9-16	.070	3-16	2.26			11-16	16.79
5-8	.087	1-4	2.35			3-4	17.04
11-16	.105	5-16	2.44		8.01	13-16	17.28
3-4	.125	3-8	2.54	1-16	8.18	7-8	17.53
13-16	.147	7-16	2.63	1-8	8.35	15-16	17.78
7-8	.170	1-2	2.73	3-16	8.52		
15-16	.196	9-16	2.82	1-4	8.69	9	
			5-8	5-16	8.87		18.02
		11-16	2.92	3-8	9.04	1-16	18.28
1		3-4	3.03	7-16	9.22	1-8	18.53
	.223	13-16	3.13	1-2	9.40	3-16	18.78
1-16	.251	7-8	3.34	9-16	9.58	1-4	19.04
1-8	.282	15-16	3.45	5-8	9.77	5-16	19.30
3-16	.314			11-16	9.95	3-8	19.56
1-4	.348	4		3-4	10.14	7-16	19.82
5-16	.383		3.56	13-16	10.33	1-2	20.08
3-8	.421	1-16	3.67	7-8	10.52	9-16	20.35
7-16	.460	1-8	3.79	15-16	10.71	5-8	20.62
1-2	.501	3-16	3.90			11-16	20.88
9-16	.543	1-4	4.02	7		3-4	21.15
5-8	.588	5-16	4.14		10.90	13-16	21.43
11-16	.634	3-8	4.26	1-16	11.10	7-8	21.70
3-4	.682	7-16	4.38	1-8	11.30	15-16	21.98
13-16	.731	1-2	4.51	3-16	11.50	10	
7-8	.782	9-16	4.63	1-4	11.70		22.25
15-16	.835	5-8	4.76	5-16	11.90	1-16	22.53
		11-16	4.89	3-8	12.10	1-8	22.81
2		3-4	5.02	7-16	12.31	3-16	23.10
	.89	13-16	5.15	1-2	12.52	1-4	23.38
1-16	.95	7-8	5.29	9-16	12.73	5-16	23.67
1-8	1.01	15-16	5.43	5-8	12.94	3-8	23.95
3-16	1.07	5		11-16	13.15	7-16	24.24
1-4	1.13		5.56	3-4	13.37	9-16	24.53
5-16	1.19	1-16	5.70	13-16	13.58	5-8	24.83
3-8	1.26	1-8	5.85	7-8	13.80	11-16	25.12
7-16	1.32	3-16	5.99	15-16	14.02	3-4	25.42
1-2	1.39	1-4	6.13			13-16	25.72
9-16	1.46	5-16	6.28			7-8	26.02
5-8	1.53	3-8	6.43		14.24	15-16	26.32
11-16	1.61	7-16	6.58	1-16	14.47		26.62
3-4	1.68	1-2	6.73	1-8	14.69	1-16	26.93
							27.23

(Continued on following page)



WEIGHT OF ROUND STEEL PER INCH OF LENGTH



(Continued from preceding page)

Diam.	Lbs.	Diam.	Lbs.	Diam.	Lbs.	Diam.	Lbs.
11		14		17		22	
1-8	27.54	43.62	1-2	68.14	5-8	113.90	
3-16	27.85	44.01	5-8	69.12	3-4	115.16	
1-4	28.16	44.40	3-4	70.10	7-8	116.43	
5-16	28.48	44.79	7-8	71.09			
3-8	28.79	45.19			23	117.70	
7-16	29.11	45.58		72.09	1-8	118.99	
1-2	29.43	45.98	1-8	73.10	1-4	120.28	
9-16	29.75	46.38	1-4	74.11	3-8	121.57	
5-8	30.07	46.79	3-8	75.13	1-2	122.88	
11-16	30.40	47.19	1-2	76.15	5-8	124.19	
3-4	30.72	47.60	5-8	77.18	3-4	125.50	
13-16	31.05	48.00	3-4	78.22	7-8	126.83	
7-8	31.38	48.41	7-8	79.27			
15-16	31.71	48.83			24		
		7-8	49.24	19		128.16	
12	32.04	15-16	49.65		80.32	1-8	129.50
1-16	32.38	15		1-8	81.38	1-4	130.84
1-8	32.72		50.07	1-4	82.45	3-8	132.20
3-16	33.05	1-16	50.49	3-8	83.52	1-2	133.56
1-4	33.39	1-8	50.91	1-2	84.61	5-8	134.92
5-16	33.73	3-16	51.33	5-8	85.69	3-4	136.30
3-8	34.08	1-4	51.75	3-4	86.79	7-8	137.68
7-16	34.42	5-16	52.18	7-8	87.89		
1-2	34.77	3-8	52.60	25		139.06	
9-16	35.12	7-16	53.03		89.00	1-8	140.46
5-8	35.47	1-2	53.46	1-8	90.12	1-4	141.86
11-16	35.82	9-16	53.89	1-4	91.24	3-8	143.27
3-4	36.17	5-8	54.33	3-8	92.37	1-2	144.68
13-16	36.53	11-16	54.76	1-2	93.51	5-8	146.10
7-8	36.89	3-4	55.20	5-8	94.65	3-4	147.53
15-16	37.25	13-16	55.64	3-4	95.80	7-8	148.97
		7-8	56.08	7-8	96.96	26	
13	37.61	15-16	56.52			150.41	
1-16	37.97	16		98.12	1-8	151.86	
1-8	38.33		56.96	1-8	99.30	1-4	153.32
3-16	38.70	1-8	57.86	1-4	100.47	3-8	154.78
1-4	39.07	1-4	58.75	3-8	101.66	1-2	156.25
5-16	39.44	3-8	59.66	1-2	102.85	5-8	157.73
3-8	39.81	1-2	60.58	5-8	104.05	3-4	159.21
7-16	40.18	5-8	61.50	3-4	105.26	7-8	160.71
1-2	40.56	3-4	62.43	7-8	106.47		
9-16	40.93	7-8	63.36	27		162.20	
5-8	41.31						
11-16	41.69	17		107.69	1-8	163.71	
3-4	42.07		64.30	1-8	108.92	1-4	165.22
13-16	42.46	1-8	65.25	1-4	110.15	3-8	166.74
7-8	42.84	1-4	66.21	3-8	111.39	1-2	168.27
15-16	43.23	3-8	67.17	1-2	112.64	5-8	169.80

(Continued on following page)



WEIGHT OF ROUND STEEL PER INCH OF LENGTH



(Continued from preceding page)

Diam.	Lbs.	Diam.	Lbs.	Diam.	Lbs.	Diam.	Lbs.
27		32		37		43	
3-4	171.34	3-4	238.65	7-8	319.18	1-8	411.40
7-8	172.89	7-8	240.48	38		1-4	413.80
						3-8	416.20
28		33					
						321.29	418.61
						1-8	421.03
	174.44		242.30			1-4	423.45
1-8	176.00	1-8	244.14			3-8	425.88
1-4	177.57	1-4	245.99			3-4	428.32
3-8	179.14	3-8	247.84			7-8	430.76
1-2	180.73	1-2	249.71			7-8	433.21
5-8	182.31	5-8	251.57				435.67
3-4	183.91	3-4	253.44			1-8	438.13
7-8	185.51	7-8	255.32			1-4	440.61
						3-8	443.08
29		34		39		44	
	187.13		257.21			3-8	445.57
1-8	189.74	1-8	259.11			7-8	448.06
1-4	190.36	1-4	261.01				
3-8	191.99	3-8	262.92				
1-2	193.64	1-2	264.83				
5-8	195.28	5-8	266.75				
3-4	196.93	3-4	268.68				
7-8	198.59	7-8	270.62	40			
30		35				45	
	200.25		272.56			356.00	
1-8	201.92	1-8	274.52			1-8	453.07
1-4	203.60	1-4	276.47			1-4	455.58
3-8	205.29	3-8	278.43			3-8	458.10
1-2	206.98	1-2	280.41			1-2	460.63
5-8	208.68	5-8	282.39			5-8	463.17
3-4	210.39	3-4	284.37			3-4	465.71
7-8	212.10	7-8	286.36	40		7-8	468.26
31		36				46	
						356.00	
	213.82	1-8	290.37			1-8	470.81
1-8	215.55	1-4	292.38			1-4	473.37
1-4	217.29	3-8	294.40			3-8	475.94
3-8	219.03	1-2	296.43			1-2	478.52
1-2	221.78	5-8	298.46			5-8	481.10
5-8	222.54	3-4	300.50			3-8	483.69
3-4	224.29	7-8	302.55	41		3-4	486.29
7-8	226.07					7-8	488.89
32		37				47	
						374.02	
	227.84	1-8	304.60			1-8	491.50
1-8	229.63	1-4	306.67			1-4	494.12
1-4	231.41	3-8	308.73			3-8	496.75
3-8	233.21	1-2	310.81			1-2	502.02
1-2	235.02	5-8	312.89			5-8	504.66
5-8	236.83	3-4	314.98			3-4	507.31
						7-8	509.98

512.64

G



WEIGHT OF ROUND STEEL BARS



Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
1/16	.010	.125	.16	.200
5/64	.016	.192	.256	.320
3/32	.024	.288	.384	.480
7/64	.032	.384	.512	.640
1/8	.042	.501	.667	.834
9/64	.053	.634	.845	1.06
5/32	.065	.782	1.04	1.30
11/32	.079	.947	1.26	1.58
3/16	.094	1.127	1.41	1.88
13/64	.110	1.32	1.76	2.20
7/32	.128	1.53	2.04	2.56
15/64	.147	1.76	2.35	2.93
1/4	.167	2.00	2.67	3.34
17/64	.188	2.26	3.01	3.77
9/32	.211	2.53	3.38	4.22
19/64	.235	2.82	3.77	4.71
5/16	.261	3.13	4.17	5.22
21/64	.288	3.45	4.60	5.75
11/32	.316	3.79	5.05	6.31
23/64	.345	4.14	5.52	6.90
3/8	.376	4.51	6.01	7.51
25/64	.408	4.89	6.52	8.15
13/32	.441	5.28	7.05	8.81
27/64	.475	5.70	7.60	9.51
7/16	.511	6.13	8.18	10.22
29/64	.548	6.58	8.77	10.97
15/32	.587	7.04	9.39	11.73
31/64	.627	7.52	10.02	12.53
1/2	.668	8.01	10.68	13.35
33/64	.710	8.52	11.36	14.20
17/32	.754	9.04	12.06	15.07
9/16	.845	10.14	13.52	16.90
37/64	.893	10.71	14.28	17.85
19/32	.941	11.30	15.06	18.83
39/64	.992	11.90	15.87	19.83
5/8	1.043	12.52	16.69	20.86
41/64	1.096	13.50	17.53	21.92
21/32	1.150	13.80	18.40	23.00
11/16	1.262	15.15	20.20	25.24
23/32	1.380	16.55	22.07	27.59
47/64	1.440	17.28	23.04	28.80
3/4	1.502	18.03	24.03	30.04
49/64	1.565	18.78	25.04	31.31
25/32	1.630	19.56	26.08	32.60
13/16	1.763	21.15	28.21	35.26
27/32	1.901	22.81	30.42	38.02
7/8	2.045	24.53	32.71	40.89
29/32	2.193	26.32	35.09	43.86
15/16	2.347	28.16	37.55	46.94
31/32	2.506	30.07	40.10	50.12
1	2.670	32.04	42.73	53.41
1 1/32	2.840	34.08	45.44	56.80
1 1/16	3.015	36.18	48.23	60.29
1 1/8	3.380	40.56	54.08	67.59
1 3/16	3.767	45.19	60.25	75.31
1 1/4	4.172	50.07	66.76	83.45
1 5/16	4.600	55.20	73.60	92.00
1 3/8	5.049	60.58	80.78	100.97
1 7/16	5.520	66.22	88.29	110.36
1 1/2	6.008	72.10	96.13	120.17
1 9/16	6.52	78.23	104.31	130.39

(Continued on following page)

WEIGHT OF ROUND STEEL BARS

(Continued from preceding page)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
1 5/8	7.05	84.62	112.82	141.03
1 11/16	7.60	91.25	121.67	152.09
1 3/4	8.18	98.14	130.85	163.56
1 13/16	8.77	105.27	140.36	175.45
1 7/8	9.39	112.66	150.21	187.76
1 15/16	10.02	120.29	160.39	200.48
2	10.68	128.18	170.90	213.63
2 1/16	11.36	136.31	181.75	227.19
2 1/8	12.06	144.70	192.93	241.17
2 3/16	12.78	153.34	204.45	255.56
2 1/4	13.52	162.22	216.30	270.37
2 5/16	14.28	171.36	228.48	285.60
2 3/8	15.06	180.75	241.00	301.25
2 7/16	15.87	190.39	253.85	317.31
2 1/2	16.69	200.28	267.04	333.80
2 9/16	17.53	210.42	280.55	350.69
2 5/8	18.40	220.80	294.41	368.01
2 11/16	19.29	231.44	308.59	385.74
2 3/4	20.19	242.34	323.11	403.89
2 13/16	21.12	253.48	337.97	422.46
2 7/8	22.07	264.86	353.15	441.44
2 15/16	23.04	276.50	368.67	460.84
3	24.03	288.40	384.53	480.66
3 1/16	25.05	300.54	400.72	500.90
3 1/8	26.08	312.94	417.25	521.56
3 3/16	27.13	325.57	434.10	542.62
3 1/4	28.21	338.47	451.30	564.12
3 5/16	29.30	351.61	468.82	586.02
3 3/8	30.42	365.00	486.67	608.34
3 7/16	31.55	378.65	504.86	631.08
3 1/2	32.71	392.54	523.39	654.24
3 9/16	33.89	406.69	542.26	677.82
3 5/8	35.09	421.08	561.44	701.80
3 11/16	36.31	435.73	580.98	726.22
3 3/4	37.55	450.62	600.83	751.04
3 13/16	38.81	465.77	621.02	776.28
3 7/8	40.10	481.16	641.55	801.94
3 15/16	41.40	496.81	662.42	828.02
4	42.73	512.71	683.62	854.52
4 1/16	44.07	528.85	705.14	881.42
4 1/8	45.44	545.26	727.01	908.76
4 3/16	46.83	561.90	749.20	936.50
4 1/4	48.23	578.80	771.73	964.66
4 5/16	49.66	595.94	794.59	993.24
4 3/8	51.11	613.34	817.79	1022.24
4 7/16	52.58	631.00	841.33	1051.66
4 1/2	54.08	648.90	865.20	1081.50
4 9/16	55.59	667.04	889.39	1111.74
4 5/8	57.12	685.45	913.94	1142.42
4 11/16	58.68	704.10	938.80	1173.50
4 3/4	60.25	723.00	964.00	1205.00
4 7/8	63.46	761.56	1015.41	1269.26
4 15/16	65.10	781.20	1041.60	1302.00
5	66.76	801.11	1068.14	1335.18
5 1/8	70.14	841.67	1122.22	1402.78
5 1/4	73.60	883.22	1177.63	1472.04
5 5/16	75.36	904.37	1205.82	1507.28
5 7/16	78.95	947.44	1263.25	1579.06
5 1/2	80.78	969.34	1292.45	1615.56
5 5/8	84.49	1013.88	1351.84	1689.80
5 3/4	88.29	1059.48	1412.64	1765.80

(Continued on following page)

WEIGHT OF ROUND STEEL BARS

(Continued from preceding page)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
5 $\frac{7}{8}$	92.17	1106.04	1474.72	1843.4
5 $\frac{15}{16}$	94.14	1129.68	1506.24	1882.8
6	96.13	1153.56	1538.08	1922.6
6 $\frac{1}{4}$	104.31	1251.72	1668.96	2086.2
6 $\frac{1}{2}$	112.82	1353.84	1805.12	2256.4
6 $\frac{3}{4}$	121.67	1460.04	1946.72	2433.40
7	130.85	1570.20	2093.60	2617.0
7 $\frac{1}{4}$	140.36	1684.32	2245.76	2807.20
7 $\frac{1}{2}$	150.21	1802.52	2403.36	3004.20
7 $\frac{3}{4}$	160.39	1924.68	2566.24	3207.80
8	170.90	2050.80	2734.40	3418.0
8 $\frac{1}{4}$	181.75	2181.00	2908.00	3635.00
8 $\frac{1}{2}$	192.93	2315.16	3086.88	3858.60
8 $\frac{3}{4}$	204.45	2453.40	3271.20	4089.00
9	216.30	2595.60	3460.80	4326.0
9 $\frac{1}{4}$	228.48	2741.76	3655.68	4569.60
9 $\frac{1}{2}$	241.00	2892.00	3856.00	4820.00
9 $\frac{3}{4}$	253.85	3046.20	4061.60	5077.00
10	267.00	3204.00	4272.00	5340.0

WEIGHT OF SQUARE STEEL BARS

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
1 $\frac{1}{8}$	.053	.64	.85	1.06
5 $\frac{31}{32}$	.083	1.00	1.33	1.66
3 $\frac{1}{16}$	.120	1.44	1.92	2.40
7 $\frac{7}{32}$	.163	1.96	2.61	3.26
1 $\frac{1}{4}$	.213	2.56	3.41	4.26
9 $\frac{31}{32}$	.269	3.23	4.30	5.38
5 $\frac{5}{16}$	.332	3.98	5.31	6.64
11 $\frac{1}{32}$	.402	4.82	6.43	8.04
3 $\frac{3}{8}$	.478	5.74	7.65	9.56
1 $\frac{1}{16}$	.651	7.81	10.42	13.02
1 $\frac{1}{2}$	.850	10.20	13.60	17.00
9 $\frac{1}{16}$	.108	12.96	17.28	21.60
19 $\frac{1}{32}$	1.20	14.40	19.20	24.00
5 $\frac{5}{8}$	1.33	15.96	21.28	26.60
11 $\frac{1}{16}$	1.61	19.32	25.76	32.20
3 $\frac{3}{4}$	1.91	22.92	30.56	38.20
13 $\frac{1}{16}$	2.24	26.88	35.84	44.80
7 $\frac{7}{8}$	2.60	31.20	41.60	52.00
15 $\frac{1}{16}$	2.99	35.88	47.84	59.80
1	3.40	40.80	54.40	68.00
1 $\frac{1}{16}$	3.84	46.08	61.44	76.80
1 $\frac{1}{8}$	4.30	51.60	68.80	86.00
1 $\frac{3}{16}$	4.80	57.60	76.80	96.00
1 $\frac{1}{4}$	5.31	63.72	84.96	106.20
1 $\frac{1}{16}$	5.86	70.32	93.76	117.20
1 $\frac{3}{8}$	6.43	77.16	102.88	128.60
1 $\frac{7}{16}$	7.03	84.36	112.48	140.60
1 $\frac{1}{2}$	7.65	91.80	122.40	153.00
1 $\frac{9}{16}$	8.30	99.60	132.80	166.00
1 $\frac{5}{8}$	8.98	107.76	143.68	179.60
1 $\frac{11}{16}$	9.68	116.16	154.88	193.60
1 $\frac{3}{4}$	10.41	124.92	166.56	208.20
1 $\frac{13}{16}$	11.17	134.04	178.72	223.40
1 $\frac{7}{8}$	11.95	143.40	191.20	239.00
1 $\frac{15}{16}$	12.76	153.12	204.16	255.20
2	13.60	163.20	217.60	272.00
2 $\frac{1}{16}$	14.46	173.52	231.36	289.20
2 $\frac{5}{8}$	15.35	184.20	245.60	307.00

(Continued on following page)



WEIGHT OF SQUARE STEEL BARS



(Continued from preceding page)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
2 $\frac{3}{16}$	16.27	195.24	260.32	325.40
2 $\frac{1}{4}$	17.21	206.52	275.36	344.20
2 $\frac{5}{16}$	18.18	218.16	290.88	363.60
2 $\frac{3}{8}$	19.18	230.16	306.88	383.60
2 $\frac{7}{16}$	20.20	242.40	323.20	404.00
2 $\frac{1}{2}$	21.25	255.00	340.00	425.00
2 $\frac{9}{16}$	22.33	267.96	357.28	446.60
2 $\frac{5}{8}$	23.43	281.16	374.88	468.60
2 $\frac{3}{4}$	25.71	308.52	411.36	514.20
2 $\frac{7}{8}$	28.10	337.20	449.60	562.00
3	30.60	367.20	489.60	612.00
3 $\frac{1}{8}$	33.20	398.40	531.20	664.00
3 $\frac{3}{16}$	35.91	430.92	574.50	718.20
3 $\frac{7}{32}$	38.73	464.76	619.68	774.60
3 $\frac{1}{2}$	41.65	499.80	666.40	833.00
3 $\frac{9}{32}$	47.81	573.72	764.96	956.20
4	54.40	652.80	870.40	1088.00
4 $\frac{1}{2}$	68.85	826.20	1101.60	1377.00
5	85.00	1020.00	1360.00	1700.00
6	122.40	1468.80	1958.40	2448.00



WEIGHT OF HEXAGON STEEL BARS



Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
1 $\frac{1}{8}$	.046	.55	.74	.92
5 $\frac{3}{32}$	.072	.86	1.15	1.44
3 $\frac{1}{16}$	.104	1.25	1.66	2.08
7 $\frac{3}{32}$	.141	1.69	2.26	2.82
1 $\frac{1}{4}$	.184	2.21	2.94	3.68
9 $\frac{3}{32}$	.233	2.80	3.73	4.66
5 $\frac{1}{16}$	.288	3.46	4.61	5.76
11 $\frac{3}{32}$	.348	4.18	5.57	6.96
3 $\frac{3}{8}$	.414	4.97	6.62	8.28
7 $\frac{1}{16}$	.564	6.77	9.02	11.28
1 $\frac{1}{2}$	.736	8.83	11.78	14.72
9 $\frac{1}{16}$	.932	11.18	14.91	18.64
5 $\frac{5}{8}$	1.150	13.80	18.40	23.00
11 $\frac{1}{16}$	1.393	16.72	22.29	27.86
3 $\frac{3}{4}$	1.656	19.87	26.60	33.12
13 $\frac{1}{16}$	1.944	23.33	31.10	38.88
1 $\frac{1}{8}$	2.254	27.05	36.06	45.08
15 $\frac{1}{16}$	2.588	31.06	41.41	51.76
1	2.945	35.34	47.12	58.90
1 $\frac{1}{16}$	3.324	39.89	53.18	66.48
1 $\frac{1}{8}$	3.727	44.72	59.63	74.54
1 $\frac{3}{16}$	4.152	49.82	66.43	83.04
1 $\frac{1}{4}$	4.601	55.21	73.62	92.02
1 $\frac{5}{16}$	5.072	60.86	81.15	101.44
1 $\frac{3}{8}$	5.567	66.80	89.07	111.34
1 $\frac{7}{16}$	6.085	73.02	97.36	121.70
1 $\frac{1}{2}$	6.625	79.50	106.00	132.50
1 $\frac{9}{16}$	7.189	86.27	115.02	143.78
1 $\frac{5}{8}$	7.775	93.30	124.40	155.50
1 $\frac{11}{16}$	8.385	100.62	134.16	167.70
1 $\frac{3}{4}$	9.018	108.22	144.29	180.36
1 $\frac{13}{16}$	9.673	116.08	154.77	193.46
1 $\frac{7}{8}$	10.352	124.22	165.63	207.04
1 $\frac{15}{16}$	11.053	132.64	176.85	221.06
2	11.778	141.34	188.45	235.56

(Continued on following page)



WEIGHT OF HEXAGON STEEL BARS



(Continued from preceding page)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
2 1/16	12.525	150.30	200.40	250.50
2 1/8	13.296	159.55	212.74	265.92
2 3/16	14.089	169.07	225.42	281.78
2 1/4	14.907	178.88	238.51	298.14
2 5/16	15.746	188.95	251.94	314.92
2 3/8	16.609	199.31	265.74	332.18
2 7/16	17.494	209.93	279.90	349.88
2 1/2	18.403	220.84	294.45	368.06
2 9/16	19.335	232.02	309.36	386.70
2 5/8	20.289	243.47	324.62	405.78
2 3/4	22.268	267.22	356.29	445.36
2 7/8	24.338	292.06	389.41	486.76
3	26.500	318.00	424.00	530.00
3 1/8	28.755	345.06	460.08	575.10
3 1/4	31.101	372.12	496.16	620.20
3 3/8	33.540	402.48	536.64	670.80
3 1/2	36.070	432.84	577.12	721.40
3 3/4	41.407	496.88	662.51	828.14
4	47.112	565.34	753.79	942.24
4 1/2	59.636	715.63	954.18	1192.72

WEIGHT OF FLAT STEEL BARS

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
No. 12x				
3/8	0.139	1.67	2.22	2.78
1/2	0.185	2.22	2.96	3.70
5/8	0.232	2.78	3.71	4.64
3/4	0.278	3.34	4.45	5.56
7/8	0.324	3.89	5.18	6.48
1	0.371	4.45	5.94	7.42
1 1/8	0.416	5.99	6.66	8.32
1 1/4	0.463	5.56	7.41	9.26
1 3/8	0.510	6.12	8.16	10.20
1 1/2	0.556	6.67	8.90	11.12
1 3/4	0.648	7.78	10.37	12.96
2	0.742	8.90	11.87	14.84
2 1/4	0.834	10.01	13.34	16.68
2 1/2	0.926	11.11	14.82	18.52
2 3/4	1.019	12.23	16.30	20.38
3	1.111	13.33	17.78	22.22
3 1/2	1.297	15.56	20.75	25.94
4	1.482	17.78	23.71	29.64
1/8x 3/8	0.159	1.91	2.54	3.18
1/2	0.213	2.56	3.41	4.26
5/8	0.266	3.19	4.26	5.32
3/4	0.319	3.83	5.10	6.38
7/8	0.372	4.46	5.95	7.44
1	0.425	5.10	6.80	8.50
1 1/8	0.478	5.74	7.65	9.56
1 1/4	0.531	6.37	8.50	10.62
1 3/8	0.584	7.01	9.34	11.68
1 1/2	0.638	7.66	10.21	12.76
1 5/8	0.691	8.29	11.06	13.82
1 3/4	0.744	8.93	11.90	14.88
2	0.850	10.20	13.60	17.00
2 1/4	0.956	11.47	15.30	19.12

(Continued on following page)

WEIGHT OF FLAT STEEL BARS

(Continued)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
1/8x2 1/2	1.063	12.76	17.01	21.26
2 3/4	1.169	14.03	18.70	23.38
3	1.275	15.30	20.40	25.50
3 1/4	1.381	16.57	22.10	27.62
3 1/2	1.488	17.86	23.81	29.76
3 3/4	1.594	19.13	25.50	31.88
4	1.700	20.40	27.20	34.00
4 1/2	1.913	22.96	30.61	38.26
5	2.125	25.50	34.00	42.50
5 1/2	2.338	28.06	37.41	46.76
6	2.550	30.60	40.80	51.00
7	2.975	35.70	47.60	59.50
8	3.400	40.80	54.40	68.00
9	3.825	45.90	61.20	76.50
10	4.250	51.00	68.00	85.00
12	5.100	61.20	81.60	102.00
No. 10x				
3/8	0.172	2.06	2.75	3.44
1/2	0.228	2.74	3.65	4.56
5/8	0.284	3.41	4.54	5.68
3/4	0.342	4.10	5.47	6.84
7/8	0.398	4.78	6.37	7.96
1	0.456	5.47	7.30	9.12
1 1/8	0.513	6.16	8.21	10.26
1 1/4	0.570	6.84	9.12	11.40
1 3/8	0.626	7.51	10.02	12.52
1 1/2	0.683	8.20	10.93	13.66
1 3/4	0.797	9.56	12.75	15.94
2	0.911	10.93	14.58	18.22
2 1/4	1.025	12.30	16.40	20.50
2 1/2	1.139	13.67	18.22	22.78
2 3/4	1.253	15.04	20.05	25.06
3	1.367	16.40	21.87	27.34
3 1/4	1.481	17.77	23.70	29.62
2 1/2	1.595	19.14	25.52	31.90
4	1.822	21.86	29.15	36.44
4 1/2	2.050	24.60	32.80	41.00
5	2.278	27.34	36.45	45.56
5 1/2	2.506	30.07	40.10	50.12
6	2.734	32.81	43.74	54.68
7	3.188	38.26	51.01	63.76
8	3.644	43.73	58.30	72.88
9	4.100	49.20	65.60	82.00
5/32x 1/4	.133	1.60	2.13	2.66
5/16	.166	1.99	2.66	3.32
3/8	.199	2.39	3.18	3.98
3/16x 1/4	.159	1.91	2.54	3.18
5/16	.199	2.39	3.18	3.98
3/8	.239	2.87	3.82	4.78
7/16	.279	3.35	4.46	5.58
1/2	.319	3.83	5.10	6.38
9/16	.359	4.31	5.74	7.18
5/8	.398	4.78	6.37	7.96
3/4	.478	5.74	7.65	9.56
7/8	.558	6.70	8.93	11.16
1	.638	7.66	10.21	12.76

(Continued on following page)

WEIGHT OF FLAT STEEL BARS

(Continued)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
3/16x1 1/8	.717	8.60	11.47	14.34
1 1/4	.797	9.56	12.75	15.94
1 3/8	.877	10.52	14.03	17.54
1 1/2	.956	11.47	15.30	19.12
1 3/4	1.116	13.39	17.86	22.32
1 7/8	1.195	14.34	19.12	23.90
2	1.275	15.30	20.40	25.50
2 1/4	1.434	17.21	22.94	28.68
2 1/2	1.594	19.13	25.50	31.88
2 3/4	1.753	21.04	28.05	35.06
3	1.913	22.96	30.61	38.26
3 1/4	2.072	24.86	33.15	41.44
3 1/2	2.231	26.77	35.70	44.62
3 3/4	2.391	28.69	38.26	47.82
4	2.550	30.60	40.80	51.00
4 1/2	2.868	34.42	45.89	57.36
5	3.188	38.26	51.01	63.76
6	3.825	45.90	61.20	76.50
7/32x 5/16	.232	2.78	3.71	4.64
3/8	.279	3.35	4.46	5.58
1/4x 5/16	.266	3.19	4.26	5.32
3/8	.319	3.83	5.10	6.38
7/16	.372	4.46	5.95	7.44
1/2	.425	5.10	6.80	8.50
9/16	.478	5.74	7.65	9.56
5/8	.531	6.37	8.50	10.62
11/16	.584	7.01	9.34	11.68
3/4	.638	7.66	10.21	12.76
13/16	.691	8.29	11.06	13.82
7/8	.744	8.93	11.90	14.88
15/16	.797	9.56	12.75	15.94
1	.850	10.20	13.60	17.00
1 1/8	.956	11.47	15.30	19.12
1 1/4	1.063	12.76	17.01	21.26
1 3/8	1.169	14.03	18.70	23.38
1 1/2	1.275	15.30	20.40	25.50
1 5/8	1.381	16.57	22.10	27.62
1 3/4	1.488	17.86	23.81	29.76
1 7/8	1.594	19.13	25.50	31.88
2	1.700	20.40	27.20	34.00
2 1/4	1.913	22.96	30.61	38.26
2 1/2	2.125	25.50	34.00	42.50
2 3/4	2.338	28.06	37.41	46.76
3	2.550	30.60	40.80	51.00
3 1/4	2.763	33.16	44.21	55.26
3 1/2	2.975	35.70	47.60	59.50
3 3/4	3.188	38.26	51.01	63.76
4	3.400	40.80	54.40	68.00
4 1/4	3.613	43.36	57.81	72.26
4 1/2	3.825	45.90	61.20	76.50
5	4.250	51.00	68.00	85.00
5 1/2	4.675	56.10	74.80	93.50
6	5.100	61.20	81.60	102.00
8	6.800	81.60	108.80	136.00
10	8.500	102.00	136.00	170.00
12	10.200	122.40	163.20	204.00
5/16x 3/8	.398	4.78	6.37	7.96
7/16	.465	5.58	7.44	9.30

(Continued on following page)

WEIGHT OF FLAT STEEL BARS

(Continued)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
5/16x 1/2	.531	6.37	8.50	10.62
9/16	.598	7.18	9.57	11.96
5/8	.664	7.97	10.62	13.28
11/16	.731	8.77	11.70	14.62
3/4	.797	9.56	12.75	15.94
7/8	.930	11.16	14.88	18.60
1	1.063	12.76	17.01	21.26
1 1/8	1.195	14.34	19.12	23.90
1 1/4	1.328	15.94	21.25	26.56
1 3/8	1.461	17.53	23.38	29.22
1 1/2	1.594	19.13	25.50	31.88
1 3/4	1.859	22.31	29.74	37.18
2	2.125	25.50	34.00	42.50
2 1/8	2.258	27.10	36.13	45.16
2 1/4	2.391	28.69	38.26	47.82
2 1/2	2.656	31.87	42.50	53.12
2 3/4	2.922	35.06	46.75	58.44
3	3.188	38.26	51.01	63.76
3 1/4	3.453	41.45	55.25	69.06
3 1/2	3.719	44.63	59.50	74.38
4	4.250	51.00	68.00	85.00
4 1/2	4.781	57.37	76.50	95.62
5	5.313	63.76	85.01	106.26
6	6.375	76.50	102.00	127.50
8	8.500	102.00	136.00	170.00
10	10.625	127.50	170.00	212.50
12	12.750	153.00	204.00	255.00
3/8x 7/16	.558	6.70	8.93	11.16
1/2	.638	7.66	10.21	12.76
9/16	.717	8.60	11.47	14.34
5/8	.797	9.56	12.75	15.94
11/16	.877	10.25	14.03	17.54
3/4	.956	11.47	15.30	19.12
7/8	1.116	13.39	17.86	22.32
1	1.275	15.30	20.40	25.50
1 1/8	1.434	17.21	22.94	28.68
1 1/4	1.594	19.13	25.50	31.88
1 3/8	1.753	21.04	28.05	35.06
1 1/2	1.913	22.96	30.61	38.26
1 5/8	2.072	24.86	33.15	41.44
1 3/4	2.231	26.77	35.70	44.62
1 7/8	2.391	28.69	38.26	47.82
2	2.550	30.60	40.80	51.00
2 1/4	2.869	34.43	45.90	57.38
2 1/2	3.188	38.26	51.01	63.76
2 3/4	3.506	42.07	56.10	70.12
3	3.825	45.90	61.20	76.50
3 1/4	4.144	49.73	66.30	82.88
3 1/2	4.463	53.56	71.41	89.26
3 3/4	4.781	57.37	76.50	95.62
4	5.100	61.20	81.60	102.00
4 1/4	5.419	65.03	86.70	108.38
4 1/2	5.738	68.86	91.81	114.76
5	6.375	76.50	102.00	127.50
5 1/2	7.013	84.16	112.21	140.26
6	7.650	91.80	122.40	153.00
8	10.200	122.40	163.20	204.00

(Continued on following page)

WEIGHT OF FLAT STEEL BARS

(Continued)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
3/8x10	12.750	153.00	204.00	255.00
12	15.300	183.60	244.80	306.00
7/16x 1/2	.744	8.93	11.90	14.88
9/16	.837	10.04	13.39	16.74
5/8	.930	11.16	14.88	18.60
3/4	1.116	13.39	17.86	22.32
7/8	1.302	15.62	20.83	26.04
1	1.488	17.86	23.81	29.86
1 1/8	1.673	20.08	26.77	33.46
1 1/4	1.859	22.31	29.74	37.18
1 1/2	2.231	26.77	35.70	44.62
1 3/4	2.603	31.24	41.65	52.06
2	2.975	35.70	47.60	59.50
2 1/4	3.347	40.16	53.55	66.94
2 1/2	3.719	44.63	59.50	74.38
2 3/4	4.091	49.09	65.46	81.82
3	4.463	53.56	71.41	89.26
3 1/4	4.834	58.01	77.34	96.68
3 1/2	5.206	62.47	83.30	104.12
4	5.950	71.40	95.20	119.00
4 1/2	6.694	80.33	107.10	133.88
5	7.438	89.26	119.01	148.76
6	8.952	107.10	142.80	178.50
1/2x 9/16	.956	11.47	15.30	19.12
5/8	1.063	12.76	17.01	21.26
11/16	1.169	14.03	18.70	23.38
3/4	1.275	15.30	20.40	25.50
13/16	1.382	16.58	22.11	27.64
7/8	1.488	17.86	23.81	29.76
1	1.700	20.40	27.20	34.00
1 1/8	1.913	22.96	30.61	38.26
1 1/4	2.125	25.50	34.00	42.50
1 3/8	2.338	28.06	37.41	46.76
1 1/2	2.550	30.60	40.80	51.00
1 5/8	2.763	33.16	44.21	55.26
1 3/4	2.975	35.70	47.60	59.50
1 7/8	3.188	38.26	51.01	63.76
2	3.400	40.80	54.40	68.00
2 1/4	3.825	45.90	61.20	76.50
2 1/2	4.250	51.00	68.00	85.00
2 3/4	4.675	56.10	74.80	93.50
3	5.100	61.20	81.60	102.00
3 1/4	5.525	66.30	88.40	110.50
3 1/2	5.950	71.40	95.20	119.00
3 3/4	6.375	76.50	102.00	127.50
4	6.800	81.60	108.80	136.00
4 1/4	7.225	86.70	115.60	144.50
4 1/2	7.650	91.80	122.40	153.00
4 3/4	8.075	96.90	129.20	161.50
5	8.500	102.00	136.00	170.00
5 1/4	8.925	107.10	142.80	178.50
5 1/2	9.350	112.20	149.60	187.00
5 3/4	9.775	117.30	156.40	195.50
6	10.200	122.40	163.20	204.00
8	13.600	163.20	217.60	272.00
10	17.000	204.00	272.00	340.00
12	20.400	244.80	326.40	408.00

(Continued on following page)

WEIGHT OF FLAT STEEL BARS

(Continued)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
9/16x 5/8	1.200	14.40	19.20	24.00
3/4	1.434	17.21	22.94	28.68
7/8	1.673	20.08	26.77	33.46
1	1.913	22.96	30.61	38.26
1 1/4	2.391	28.69	38.26	47.82
1 1/2	2.869	34.43	45.90	57.38
1 3/4	3.347	40.16	53.55	66.94
2	3.825	45.90	61.20	76.50
2 1/2	4.781	57.37	76.50	95.62
3	5.738	68.86	91.81	114.76
5/8 x 11/16	1.461	17.53	23.38	29.22
3/4	1.594	19.13	25.50	31.88
13/16	1.727	20.72	27.63	34.54
7/8	1.859	22.31	29.74	37.18
1	2.125	25.50	34.00	42.50
1 1/8	2.391	28.69	38.26	47.82
1 1/4	2.656	31.87	42.50	53.12
1 3/8	2.922	35.06	46.75	58.44
1 1/2	3.188	38.26	51.01	63.76
1 5/8	3.453	41.44	55.25	69.06
1 3/4	3.719	44.63	59.50	74.38
1 7/8	3.984	47.81	63.74	79.68
2	4.250	51.00	68.00	85.00
2 1/4	4.781	57.37	76.50	95.62
2 1/2	5.313	63.76	85.01	106.26
2 3/4	5.844	70.13	93.50	116.88
3	6.375	76.50	102.00	127.50
3 1/4	6.906	82.87	110.50	138.12
3 1/2	7.438	89.26	119.01	148.76
3 3/4	7.969	95.63	127.50	159.38
4	8.500	102.00	136.00	170.00
4 1/4	9.031	108.37	144.50	180.62
4 1/2	9.563	114.76	153.01	191.26
4 3/4	10.094	121.13	161.50	201.88
5	10.625	127.50	170.00	212.50
5 1/2	11.688	140.26	187.01	233.76
6	12.750	153.00	204.00	255.00
7	14.875	178.50	238.00	297.50
8	17.000	204.00	272.00	340.00
10	21.250	255.00	340.00	425.00
12	25.500	306.00	408.00	510.00
11/16x 3/4	1.753	21.04	28.05	35.06
1	2.338	28.06	37.41	46.76
1 1/4	2.922	35.06	46.75	58.44
1 1/2	3.506	42.07	56.10	70.12
2	4.675	56.10	74.80	93.50
3/4 x 13/16	2.072	24.80	33.15	41.44
7/8	2.231	26.77	35.70	44.62
1	2.550	30.60	40.80	51.00
1 1/8	2.869	34.43	45.90	57.38
1 1/4	3.188	38.26	51.01	63.76
1 3/8	3.506	42.07	56.10	70.12
1 1/2	3.825	45.90	61.20	76.50
1 5/8	4.144	49.73	66.30	82.88
1 3/4	4.463	53.56	71.41	89.26
2	5.100	61.20	81.60	102.00
2 1/4	5.738	68.86	91.81	114.76
2 1/2	6.375	76.50	102.00	127.50

(Continued on following page)

WEIGHT OF FLAT STEEL BARS

(Continued)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
3/4x2 3/4	7.013	84.16	112.21	140.26
3	7.650	91.80	122.40	153.00
3 1/4	8.288	99.46	132.61	165.76
3 1/2	8.925	107.10	142.80	178.50
4	10.200	122.40	163.20	204.00
4 1/2	11.475	137.70	183.60	229.50
5	12.750	153.00	204.00	255.00
5 1/2	14.205	168.30	224.40	280.50
6	15.300	183.60	244.80	306.00
8	20.400	244.80	326.40	408.00
10	25.500	306.00	408.00	510.00
12	30.600	367.20	489.60	612.00
7/8x1	2.975	35.70	47.60	59.50
1 1/8	3.347	40.16	53.55	66.94
1 1/4	3.719	44.63	59.50	74.38
1 3/8	4.091	49.09	65.46	81.82
1 1/2	4.463	53.56	71.41	89.26
1 3/4	5.206	62.47	83.30	104.12
2	5.950	71.40	95.20	119.00
2 1/4	6.694	80.33	107.10	133.88
2 1/2	7.433	89.26	119.01	148.76
2 3/4	8.181	98.17	130.90	163.62
3	8.925	107.10	142.80	178.50
3 1/4	9.669	116.03	154.70	193.38
3 1/2	10.413	124.96	166.61	208.26
4	11.900	142.80	190.40	238.00
4 1/2	13.388	160.66	214.21	267.76
5	14.875	178.50	238.00	297.50
6	17.850	214.20	285.60	357.00
8	23.800	285.60	380.80	476.00
10	29.750	357.00	476.00	595.00
12	35.700	428.40	571.20	714.00
1x1 1/8	3.825	45.90	61.20	76.50
1 1/4	4.250	51.00	68.00	85.00
1 3/8	4.675	56.10	74.80	93.50
1 1/2	5.100	61.20	81.60	102.00
1 5/8	5.525	66.30	88.40	110.50
1 3/4	5.950	71.40	95.20	119.00
2	6.800	81.60	108.80	136.00
2 1/4	7.650	91.80	122.40	153.00
2 1/2	8.500	102.00	136.00	170.00
2 3/4	9.350	112.20	149.60	187.00
3	10.200	122.40	163.20	204.00
3 1/4	11.050	132.60	176.80	221.00
3 1/2	11.900	142.80	190.40	238.00
3 3/4	12.750	153.00	204.00	255.00
4	13.600	163.20	217.60	272.00
4 1/2	15.300	183.60	244.80	306.00
5	17.000	204.00	272.00	340.00
5 1/2	18.700	224.40	299.20	374.00
6	20.400	244.80	326.40	408.00
8	27.200	326.40	435.20	544.00
10	34.000	408.00	544.00	680.00
12	40.800	489.60	652.80	816.00
1-1/8x1 1/4	4.781	57.37	76.50	95.62
1 1/8	5.259	63.11	84.14	105.18
1 1/2	6.738	68.86	91.81	114.76
1 5/8	6.216	74.59	99.46	124.32

(Continued on following page)


WEIGHT OF FLAT STEEL BARS


(Continued)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
1-1/8x1 3/4	6.694	80.33	107.10	133.88
2	7.650	91.80	122.40	153.00
2 1/4	8.606	103.27	137.70	172.12
2 1/2	9.563	114.76	153.01	191.26
3	11.475	137.70	183.60	229.50
1-1/4x1 3/8	5.844	70.13	93.50	116.88
1 1/2	6.375	76.50	102.00	127.50
1 5/8	6.906	82.87	110.50	138.12
1 3/4	7.438	89.26	119.01	148.76
1 7/8	7.969	95.63	127.50	159.38
2	8.500	102.00	136.00	170.00
2 1/4	9.563	114.76	153.01	191.26
2 1/2	10.625	127.50	170.00	212.50
2 3/4	11.688	140.26	187.01	233.76
3	12.750	153.00	204.00	255.00
3 1/4	13.813	165.76	221.01	276.26
3 1/2	14.875	178.50	238.00	297.50
4	17.000	204.00	272.00	340.00
4 1/2	19.125	229.50	306.00	382.50
5	21.250	255.00	340.00	425.00
5 1/2	23.375	280.50	374.00	467.50
6	25.500	306.00	408.00	510.00
8	34.000	408.00	544.00	680.00
10	42.500	510.00	680.00	850.00
12	51.000	612.00	816.00	1020.00
1-3/8x2	9.35	112.20	149.60	187.00
3	14.03	168.36	224.48	280.60
1-1/2x1 5/8	8.29	99.48	132.64	165.80
1 3/4	8.93	107.16	142.88	178.60
2	10.20	122.40	163.20	204.00
2 1/4	11.48	137.76	183.68	229.60
2 1/2	12.75	153.00	204.00	255.00
2 3/4	14.03	168.36	224.48	280.60
3	15.30	183.60	244.80	306.00
3 1/4	16.58	198.96	265.28	331.60
3 1/2	17.85	214.20	285.60	357.00
4	20.40	244.80	326.40	408.00
4 1/2	22.95	275.40	367.20	459.00
5	25.50	306.00	408.00	510.00
5 1/2	28.05	336.60	448.80	561.00
6	30.60	367.20	489.60	612.00
8	40.80	489.60	652.80	816.00
10	51.00	612.00	816.00	1020.00
12	61.20	734.40	979.20	1224.00
1-3/4x2	11.90	142.80	190.40	238.00
2 1/4	13.39	160.68	214.24	267.80
2 1/2	14.88	178.56	238.08	297.60
2 3/4	16.36	196.32	261.76	327.20
3	17.85	214.20	285.60	357.00
3 1/4	19.34	232.08	309.44	386.80
3 1/2	20.83	249.96	333.28	416.60
4	23.80	285.60	380.80	476.00
4 1/2	26.78	321.36	428.48	535.60
5	29.75	357.00	476.00	595.00
5 1/2	32.73	392.76	523.68	654.60
6	35.70	428.40	571.20	714.00

(Continued on following page)

WEIGHT OF FLAT STEEL BARS

(Continued)

Size in Inches	Wt. per ft. lbs.	Wt. of 12' bar	Wt. of 16' bar	Wt. of 20' bar
2x2½	15.30	183.60	244.80	306.00
2½	17.00	204.00	272.00	340.00
2¾	18.70	224.40	299.20	374.00
3	20.40	244.80	326.40	408.00
3¼	22.10	265.20	353.60	442.00
3½	28.80	285.60	380.80	476.00
4	27.20	326.40	435.20	544.00
4½	30.60	367.20	489.60	612.00
5	34.00	408.00	544.00	680.00
6	40.80	489.60	652.80	816.00
8	54.40	652.80	870.40	1088.00
10	68.00	816.00	1088.00	1360.00
12	81.60	979.20	1305.60	1632.00
2-1/4x2½	19.13	229.56	306.08	382.60
2¾	21.04	252.48	336.64	420.80
3	22.95	275.40	367.20	459.00
3¼	24.86	298.32	397.76	497.20
3½	26.78	321.36	428.48	535.60
4	30.60	367.20	489.60	612.00
4½	34.43	413.16	550.80	688.60
5	38.25	459.00	612.00	765.00
6	45.90	550.80	734.40	918.00
2-1/2x2¾	23.38	280.56	374.08	467.60
3	25.50	306.00	408.00	510.00
3¼	27.63	331.56	442.08	552.60
3½	29.75	357.00	476.00	595.00
4	34.00	408.00	544.00	680.00
4½	38.25	459.00	612.00	765.00
5	42.50	510.00	680.00	850.00
6	51.00	612.00	816.00	1020.00
3x4	40.80	489.60	652.80	816.00
5	51.00	612.00	816.00	1020.00
6	61.20	734.40	979.20	1224.00
4x6	81.60	979.20	1305.60	1632.00

**STEEL PLATES, THEORETICAL WEIGHT
PER SQUARE FOOT**

Size in Inches	Wt. per Square Ft. Lbs.	Size in Inches	Wt. per Square Ft. Lbs.	Size in Inches	Wt. per Square Ft. Lbs.
3/16	7.65	1 3/8	56.10	4	163.20
1/4	10.20	1 1/2	61.20	4 1/4	173.40
5/16	12.75	1 5/8	66.30	4 1/2	183.60
3/8	15.30	1 3/4	71.40	5	204.00
7/16	17.85	1 7/8	76.50	5 1/2	224.40
1/2	20.40	2	81.60	6	244.80
9/16	22.95	2 1/4	91.80	6 1/2	265.20
5/8	25.50	2 1/2	102.00	7	285.60
3/4	30.60	2 3/4	112.20	7 1/2	306.00
7/8	35.70	3	122.40	8	326.40
1	40.80	3 1/4	132.60	9	367.20
1 1/8	45.90	3 1/2	142.80	10	408.00
1 1/4	51.00	3 3/4	153.00	12	489.60

**CONVERSION TABLE OF
INCHES INTO DECIMALS OF A FOOT**

	0"	1"	2"	3"	4"	5"	
0"	.0000	.0833	.1667	.2500	.3333	.4167	0"
$\frac{1}{32}''$	.0026	.0859	.1693	.2526	.3359	.4193	$\frac{1}{32}''$
$\frac{1}{16}''$	.0052	.0885	.1719	.2552	.3385	.4219	$\frac{1}{16}''$
$\frac{3}{32}''$	.0078	.0911	.1745	.2578	.3411	.4245	$\frac{3}{32}''$
$\frac{1}{8}''$	.0104	.0938	.1771	.2604	.3438	.4271	$\frac{1}{8}''$
$\frac{5}{32}''$	.0130	.0964	.1797	.2630	.3464	.4297	$\frac{5}{32}''$
$\frac{3}{16}''$	.0156	.0990	.1823	.2656	.3490	.4323	$\frac{3}{16}''$
$\frac{7}{32}''$	.0182	.1016	.1849	.2682	.3516	.4349	$\frac{7}{32}''$
$\frac{1}{4}''$	.0208	.1042	.1875	.2708	.3542	.4375	$\frac{1}{4}''$
$\frac{9}{32}''$	.0234	.1068	.1901	.2734	.3568	.4401	$\frac{9}{32}''$
$\frac{5}{16}''$	.0260	.1094	.1927	.2760	.3594	.4427	$\frac{5}{16}''$
$\frac{11}{32}''$	.0286	.1120	.1953	.2786	.3620	.4453	$\frac{11}{32}''$
$\frac{3}{8}''$	.0313	.1146	.1979	.2813	.3646	.4479	$\frac{3}{8}''$
$\frac{13}{32}''$	.0339	.1172	.2005	.2839	.3672	.4505	$\frac{13}{32}''$
$\frac{7}{16}''$	.0365	.1198	.2031	.2865	.3698	.4531	$\frac{7}{16}''$
$\frac{15}{32}''$	.0391	.1224	.2057	.2891	.3724	.4557	$\frac{15}{32}''$
$\frac{1}{2}''$	.0417	.1250	.2083	.2917	.3750	.4583	$\frac{1}{2}''$
$\frac{17}{32}''$	.0443	.1276	.2109	.2943	.3776	.4609	$\frac{17}{32}''$
$\frac{9}{16}''$	.0469	.1302	.2135	.2969	.3802	.4635	$\frac{9}{16}''$
$\frac{19}{32}''$	.0495	.1328	.2161	.2995	.3828	.4661	$\frac{19}{32}''$
$\frac{5}{8}''$	.0521	.1354	.2188	.3021	.3854	.4688	$\frac{5}{8}''$
$\frac{21}{32}''$	.0547	.1380	.2214	.3047	.3880	.4714	$\frac{21}{32}''$
$\frac{11}{16}''$	.0573	.1406	.2240	.3073	.3906	.4740	$\frac{11}{16}''$
$\frac{23}{32}''$	.0599	.1432	.2266	.3099	.3932	.4766	$\frac{23}{32}''$
$\frac{3}{4}''$	.0625	.1458	.2292	.3125	.3958	.4792	$\frac{3}{4}''$
$\frac{25}{32}''$	.0651	.1484	.2318	.3151	.3984	.4818	$\frac{25}{32}''$
$\frac{13}{16}''$	.0677	.1510	.2344	.3177	.4010	.4844	$\frac{13}{16}''$
$\frac{27}{32}''$	.0703	.1536	.2370	.3203	.4036	.4870	$\frac{27}{32}''$
$\frac{7}{8}''$	.0729	.1563	.2396	.3229	.4063	.4896	$\frac{7}{8}''$
$\frac{29}{32}''$	.0755	.1589	.2422	.3255	.4089	.4922	$\frac{29}{32}''$
$\frac{15}{16}''$	.0781	.1615	.2448	.3281	.4115	.4948	$\frac{15}{16}''$
$\frac{31}{32}''$	.0807	.1641	.2474	.3307	.4141	.4974	$\frac{31}{32}''$
	0"	1"	2"	3"	4"	5"	

(Continued on following page)

**CONVERSION TABLE OF
INCHES INTO DECIMALS OF A FOOT**

(Continued)

	6"	7"	8"	9"	10"	11"	
0"	.5000	.5833	.6667	.7500	.8333	.9167	0"
$\frac{1}{32}''$	.5026	.5859	.6693	.7526	.8359	.9193	$\frac{1}{32}''$
$\frac{1}{16}''$	.5052	.5885	.6719	.7552	.8385	.9219	$\frac{1}{16}''$
$\frac{3}{32}''$	.5078	.5911	.6745	.7578	.8411	.9245	$\frac{3}{32}''$
$\frac{5}{32}''$	.5104	.5938	.6771	.7604	.8438	.9271	$\frac{5}{32}''$
$\frac{3}{16}''$	.5130	.5964	.6797	.7630	.8464	.9297	$\frac{3}{16}''$
$\frac{7}{32}''$	.5156	.5990	.6823	.7656	.8490	.9323	$\frac{7}{32}''$
$\frac{1}{4}''$	.5182	.6016	.6849	.7682	.8516	.9349	$\frac{1}{4}''$
$\frac{9}{32}''$	.5208	.6042	.6875	.7708	.8542	.9375	$\frac{9}{32}''$
$\frac{5}{16}''$	.5234	.6068	.6901	.7734	.8568	.9401	$\frac{5}{16}''$
$\frac{11}{32}''$	.5260	.6094	.6927	.7760	.8594	.9427	$\frac{11}{32}''$
$\frac{3}{8}''$	.5286	.6120	.6953	.7786	.8620	.9453	$\frac{3}{8}''$
$\frac{13}{32}''$	.5313	.6146	.6979	.7813	.8646	.9479	$\frac{13}{32}''$
$\frac{7}{16}''$	.5339	.6172	.7005	.7839	.8672	.9505	$\frac{7}{16}''$
$\frac{15}{32}''$	.5365	.6198	.7031	.7865	.8698	.9531	$\frac{15}{32}''$
$\frac{1}{2}''$	.5391	.6224	.7057	.7891	.8724	.9557	$\frac{1}{2}''$
$\frac{17}{32}''$	.5417	.6250	.7083	.7917	.8750	.9583	$\frac{17}{32}''$
$\frac{9}{16}''$	.5443	.6276	.7109	.7943	.8776	.9609	$\frac{9}{16}''$
$\frac{19}{32}''$	.5469	.6302	.7135	.7969	.8802	.9635	$\frac{19}{32}''$
$\frac{5}{8}''$	.5495	.6328	.7161	.7995	.8828	.9661	$\frac{5}{8}''$
$\frac{21}{32}''$	.5521	.6354	.7188	.8021	.8854	.9688	$\frac{21}{32}''$
$\frac{11}{16}''$	.5547	.6380	.7214	.8047	.8880	.9714	$\frac{11}{16}''$
$\frac{23}{32}''$	.5573	.6406	.7240	.8073	.8906	.9740	$\frac{23}{32}''$
$\frac{3}{4}''$	.5599	.6432	.7266	.8099	.8932	.9766	$\frac{3}{4}''$
$\frac{25}{32}''$	.5625	.6458	.7292	.8125	.8958	.9792	$\frac{25}{32}''$
$\frac{13}{16}''$	.5651	.6484	.7318	.8151	.8984	.9818	$\frac{13}{16}''$
$\frac{27}{32}''$	.5677	.6510	.7344	.8177	.9010	.9844	$\frac{27}{32}''$
$\frac{7}{8}''$	.5703	.6536	.7370	.8203	.9036	.9870	$\frac{7}{8}''$
$\frac{29}{32}''$	.5729	.6563	.7396	.8229	.9063	.9896	$\frac{29}{32}''$
$\frac{15}{16}''$	.5755	.6589	.7422	.8255	.9089	.9922	$\frac{15}{16}''$
$\frac{31}{32}''$	.5781	.6615	.7448	.8281	.9115	.9948	$\frac{31}{32}''$
	6"	7"	8"	9"	10"	11"	

STANDARD CARBON STEELS

CHEMICAL COMPOSITION LIMITS

Revised July, 1957

Resulphurized and/or Rephosphorized Steels

AISI Number Note (a)	C	Mn	P	S	SAE Number
C1108	0.08-0.13	0.50-0.80	0.040 max.	0.08-0.13	1108
C1109	0.08-0.13	0.60-0.90	0.040 max.	0.08-0.13	1109
C1110	0.08-0.13	0.30-0.60	0.040 max.	0.08-0.13	....
B1111	0.13 max.	0.60-0.90	0.07-0.12	0.08-0.15	1111
C1111	0.08-0.13	0.60-0.90	0.040 max.	0.16-0.23	....
B1112	0.13 max.	0.70-1.00	0.07-0.12	0.16-0.23	1112
B1113	0.13 max.	0.70-1.00	0.07-0.12	0.24-0.33	1113
Mx-B1113	0.08 max.	0.70-1.00	0.07-0.12	0.24-0.33	....
C1113	0.10-0.16	1.00-1.30	0.040 max.	0.24-0.33	....
C1115	0.13-0.18	0.60-0.90	0.040 max.	0.08-0.13	1115
C1116	0.14-0.20	1.10-1.40	0.040 max.	0.16-0.23	....
C1117	0.14-0.20	1.00-1.30	0.040 max.	0.08-0.13	1117
C1118	0.14-0.20	1.30-1.60	0.040 max.	0.08-0.13	1118
C1119	0.14-0.20	1.00-1.30	0.040 max.	0.24-0.33	1119
C1120	0.18-0.23	0.70-1.00	0.040 max.	0.08-0.13	1120
C1125	0.22-0.28	0.60-0.90	0.040 max.	0.08-0.13	....
C1126	0.23-0.29	0.70-1.00	0.040 max.	0.08-0.13	1126
C1132	0.27-0.34	1.35-1.65	0.040 max.	0.08-0.13	1132
C1137	0.32-0.39	1.35-1.65	0.040 max.	0.08-0.13	1137
C1138	0.34-0.40	0.70-1.00	0.040 max.	0.08-0.13	1138
C1139	0.35-0.43	1.35-1.65	0.040 max.	0.12-0.20	1139
C1140	0.37-0.44	0.70-1.00	0.040 max.	0.08-0.13	1140
C1141	0.37-0.45	1.35-1.65	0.040 max.	0.08-0.13	1141
C1144	0.40-0.48	1.35-1.65	0.040 max.	0.24-0.33	1144
C1145	0.42-0.49	0.70-1.00	0.040 max.	0.04-0.07	1145
C1146	0.42-0.49	0.70-1.00	0.040 max.	0.08-0.13	1146
C1148	0.45-0.52	0.70-1.00	0.040 max.	0.04-0.07	....
C1151	0.48-0.55	0.70-1.00	0.040 max.	0.08-0.13	1151
C1211	0.13 max.	0.60-0.90	0.07-0.12	0.08-0.15	1111
C1212	0.13 max.	0.70-1.00	0.07-0.12	0.16-0.23	1112
C1213	0.13 max.	0.70-1.00	0.07-0.12	0.24-0.33	1113

Note (a) Code for prefix letters: B is acid bessemer carbon steel. C is basic openhearth carbon steel.

Notes on Silicon Content: Acid bessemer steels (Code B) are not produced with specified silicon content. (Normally silicon is very low—0.01 to 0.02%.)

C 10xx steels—When silicon is required the following limits are commonly specified for semi-finished bars for forging, and hot rolled and cold finished bars:

C 1005 to C 1013..... 0.10% max.

C 1015 to C 1025..... { 0.10% max.
 0.10 to 0.20%
 0.15 to 0.30%

C 1026 to C 1095..... { 0.10 to 0.20%
 0.15 to 0.30%

Wire rods of all C 10xx analyses may be specified as noted above for C 1015 to C 1025.

C 1106 to C 1111 for hot rolled and cold finished bars may be limited to 0.10% max. when silicon is required. All other steels of C 11xx series in the standard lists may be specified as follows: 0.10% max., 0.10 to 0.20%, or 0.15 to 0.30%.

C 1211, C 1212 and C 1213 are not commonly produced to specified limits for silicon.

Note on Copper Content: When required, copper is specified as an added element to a standard steel.

Note on Variations: Chemical analyses are subject to standard variations for check analysis shown in the American Iron & Steel Institute's "Steel Products Manual".

Basic Openhearth and Acid Bessemer Carbon Steels

AISI Number Note (a)	C	Mn	P Max.	S Max.	SAE Number
.....	0.08 max.	0.25-0.40	0.040	0.050	1006
C1008	0.10 max.	0.25-0.50	0.040	0.050	1008
.....	0.15 max.	0.60 max.	0.040	0.050	1009
C1010	0.08-0.13	0.30-0.60	0.040	0.050	1010
C1011	0.08-0.13	0.60-0.90	0.040	0.050	
C1012	0.10-0.15	0.30-0.60	0.040	0.050	1012
C1015	0.13-0.18	0.30-0.60	0.040	0.050	1015
C1016	0.13-0.18	0.60-0.90	0.040	0.050	1016
C1017	0.15-0.20	0.30-0.60	0.040	0.050	1017
C1018	0.15-0.20	0.60-0.90	0.040	0.050	1018
C1019	0.15-0.20	0.70-1.00	0.040	0.050	1019
C1020	0.18-0.23	0.30-0.60	0.040	0.050	1020
C1021	0.18-0.23	0.60-0.90	0.040	0.050	1021
C1022	0.18-0.23	0.70-1.00	0.040	0.050	1022
C1023	0.20-0.25	0.30-0.60	0.040	0.050	1023
C1024	0.19-0.25	1.35-1.65	0.040	0.050	1024
C1025	0.22-0.28	0.30-0.60	0.040	0.050	1025
C1026	0.22-0.28	0.60-0.90	0.040	0.050	1026
C1027	0.22-0.29	1.20-1.50	0.040	0.050	1027
C1029	0.25-0.31	0.60-0.90	0.040	0.050	
C1030	0.28-0.34	0.60-0.90	0.040	0.050	1030
C1031	0.28-0.34	0.30-0.60	0.040	0.050	
C1033	0.30-0.36	0.70-1.00	0.040	0.050	1033
C1034	0.32-0.38	0.50-0.80	0.040	0.050	
C1035	0.32-0.38	0.60-0.90	0.040	0.050	1035
C1036	0.30-0.37	1.20-1.50	0.040	0.050	1036
C1037	0.32-0.38	0.70-1.00	0.040	0.050	1037
C1038	0.35-0.42	0.60-0.90	0.040	0.050	1038
C1039	0.37-0.44	0.70-1.00	0.040	0.050	1039
C1040	0.37-0.44	0.60-0.90	0.040	0.050	1040
C1041	0.36-0.44	1.35-1.65	0.040	0.050	1041
C1042	0.40-0.47	0.60-0.90	0.040	0.050	1042
C1043	0.40-0.47	0.70-1.00	0.040	0.050	1043
C1045	0.43-0.50	0.60-0.90	0.040	0.050	1045
C1046	0.43-0.50	0.70-1.00	0.040	0.050	1046
C1049	0.46-0.53	0.60-0.90	0.040	0.050	1049
C1050	0.48-0.55	0.60-0.90	0.040	0.050	1050
C1051	0.45-0.56	0.85-1.15	0.040	0.050	
C1052	0.47-0.55	1.20-1.50	0.040	0.050	1052
C1053	0.48-0.55	0.70-1.00	0.040	0.050	
C1055	0.50-0.60	0.60-0.90	0.040	0.050	1055
C1060	0.55-0.65	0.60-0.90	0.040	0.050	1060
.....	0.60-0.70	0.50-0.80	0.040	0.050	1064
.....	0.60-0.70	0.60-0.90	0.040	0.050	1065
C1070	0.65-0.75	0.60-0.90	0.040	0.050	1070
C1074	0.70-0.80	0.50-0.80	0.040	0.050	1074
C1078	0.72-0.85	0.30-0.60	0.040	0.050	1078
C1080	0.75-0.88	0.60-0.90	0.040	0.050	1080
C1084	0.80-0.93	0.60-0.90	0.040	0.050	1084
C1085	0.80-0.93	0.70-1.00	0.040	0.050	1085
C1086	0.82-0.95	0.30-0.50	0.040	0.050	1086
C1090	0.85-0.98	0.60-0.90	0.040	0.050	1090
C1095	0.90-1.03	0.30-0.50	0.040	0.050	1095

(See notes on previous page)

MECHANICAL TUBING
Seamless and Welded

AISI Number	C	Mn	P Max.	S Max.
MT1010	0.05-0.15	0.30-0.60	0.040	0.050
MT1015	0.10-0.20	0.30-0.60	0.040	0.050
MT1020	0.15-0.25	0.30-0.60	0.040	0.050

See notes page 284

STANDARD OPEN HEARTH & ELECTRIC FURNACE ALLOY STEELS

Revised to March, 1957

AISI Number	C	Mn	P Max.	Chemical Composition Limits, Per Cent				Mo	Corresponding SAE Number
				S Max.	Si	Ni	Cr		
1330	0.28/0.33	1.60/1.90	0.040	0.040	0.20/0.35	.....	.....	.....	1330
1335	0.33/0.38	1.60/1.90	0.040	0.040	0.20/0.35	.....	.....	.....	1335
1340	0.38/0.43	1.60/1.90	0.040	0.040	0.20/0.35	.....	.....	.....	1340
1345	0.43/0.48	1.60/1.90	0.040	0.040	0.20/0.35	.....	.....	.....	1345
E2517	0.15/0.20	0.45/0.60*	0.025	0.025	0.20/0.35	4.75/5.25	.....	.....	.....
3135	0.33/0.38	0.60/0.80	0.040	0.040	0.20/0.35	1.10/1.40	0.55/0.75	.....	2517
3140	0.38/0.43	0.70/0.90	0.040	0.040	0.20/0.35	1.10/1.40	0.55/0.75	.....	3135
E3310	0.08/0.13	0.45/0.60*	0.025	0.025	0.20/0.35	3.25/3.75	1.40/1.75	.....	3140
4012	0.09/0.14	0.75/1.00	0.040	0.040	0.20/0.35	.....	.....	.....	.....
4023	0.20/0.25	0.70/0.90	0.040	0.040	0.20/0.35	.....	.....	.....	3310
4024	0.20/0.25	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.15/0.25	.....	4012
4027	0.25/0.30	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.20/0.30	.....	4023
4028	0.25/0.30	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.20/0.30	.....	4024
						.....	0.20/0.30	.....	4027
						.....	0.20/0.30	.....	4028
4032	0.30/0.35	0.70/0.90	0.040	0.040	0.20/0.35	.....	.....	.....	.....
4037	0.35/0.40	0.70/0.90	0.040	0.040	0.20/0.35	.....	.....	.....	.....
4042	0.40/0.45	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.20/0.30	0.20/0.30	4032
4047	0.45/0.50	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.20/0.30	0.20/0.30	4037
4063	0.60/0.67	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.20/0.30	0.20/0.30	4042
4068	0.63/0.70	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.20/0.30	0.20/0.30	4047
						.....	0.20/0.30	0.20/0.30	4063
						.....	0.20/0.30	0.20/0.30	4068

(Continued on following page)

STANDARD OPEN HEARTH & ELECTRIC FURNACE ALLOY STEELS

See notes page 284

Revised to March, 1957

AISI Number	C	Mn	P Max.	Chemical Composition Limits, Per Cent			Cr	Mo	Corresponding SAE Number
				S Max.	Si	Ni			
4118	0.18/0.23	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.40/0.60	0.08/0.15	4118
4130	0.28/0.33	0.40/0.60	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15/0.25	4130
4135	0.33/0.38	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15/0.25	.....
4137	0.35/0.40	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15/0.25	4137
4140	0.38/0.43	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15/0.25	4140
TS4140	0.38/0.43	0.80/1.05	0.040	0.040	0.20/0.35	.....	0.90/1.20	0.08/0.15	.....
4142	0.40/0.45	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15/0.25	4142
4145	0.43/0.48	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15/0.25	4145
4147	0.45/0.50	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15/0.25	4147
4150	0.48/0.53	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15/0.25	4150
TS4150	0.48/0.53	0.80/1.05	0.040	0.040	0.20/0.35	.....	0.90/1.20	0.08/0.15	.....
4320	0.17/0.22	0.45/0.65	0.040	0.040	0.20/0.35	1.65/2.00	0.40/0.60	0.20/0.30	4320
4337	0.35/0.40	0.60/0.80**	0.040	0.040	0.20/0.35	1.65/2.00	0.70/0.90	0.20/0.30	4337
E4337	0.35/0.40	0.65/0.85	0.025	0.025	0.20/0.35	1.65/2.00	0.70/0.90	0.20/0.30	.....
4340	0.38/0.43	0.60/0.80	0.040	0.040	0.20/0.35	1.65/2.00	0.70/0.90	0.20/0.30	4340
E4340	0.38/0.43	0.65/0.85	0.025	0.025	0.20/0.35	1.65/2.00	0.70/0.90	0.20/0.30	E4340
4615	0.13/0.18	0.45/0.65	0.040	0.040	0.20/0.35	1.65/2.00	.....	0.20/0.30	4615
4617	0.15/0.20	0.45/0.65	0.040	0.040	0.20/0.35	1.65/2.00	.....	0.20/0.30	4617
4620	0.17/0.22	0.45/0.65	0.040	0.040	0.20/0.35	1.65/2.00	.....	0.20/0.30	4620
4621	0.18/0.23	0.70/0.90	0.040	0.040	0.20/0.35	1.65/2.00	.....	0.20/0.30	4621
4640	0.38/0.43	0.60/0.80	0.040	0.040	0.20/0.35	1.65/2.00	.....	0.20/0.30	4640
4720	0.17/0.22	0.50/0.70	0.040	0.040	0.20/0.35	0.90/1.20	0.35/0.55	0.15/0.25	4720
4815	0.13/0.18	0.40/0.60	0.040	0.040	0.20/0.35	3.25/3.75	.....	0.20/0.30	4815

(Continued on following page)

See notes page 284

STANDARD OPEN HEARTH & ELECTRIC FURNACE ALLOY STEELS

Revised to March, 1957

AISI Number	C	Mn	P Max.	S Max.	Chemical Composition Limits, Per Cent	Ni	Cr	Mo	Corresponding SAE Number
4817	0.15/0.20	0.40/0.60	0.040	0.040	0.20/0.35	3.25/3.75	.....	.....	4817
4820	0.18/0.23	0.50/0.70	0.040	0.040	0.20/0.35	3.25/3.75	.....	0.20/0.30	4820
5015	0.12/0.17	0.30/0.50	0.040	0.040	0.20/0.35	.....	0.30/0.50	.....	5015
5046	0.43/0.50	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.20/0.35	.....	5046
5120	0.17/0.22	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.70/0.90	.....	5120
5130	0.28/0.33	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.80/1.10	.....	5130
5132	0.30/0.35	0.60/0.80	0.040	0.040	0.20/0.35	.....	0.75/1.00	.....	5132
5135	0.33/0.38	0.60/0.80	0.040	0.040	0.20/0.35	.....	0.80/1.05	.....	5135
5140	0.38/0.43	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.70/0.90	.....	5140
5145	0.43/0.48	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.70/0.90	.....	5145
5147	0.45/0.52	0.70/0.95	0.040	0.040	0.20/0.35	.....	0.85/1.15	.....	5147
5150	0.48/0.53	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.70/0.90	.....	5150
5155	0.50/0.60	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.70/0.90	.....	5155
5160	0.55/0.65	0.75/1.00	0.040	0.040	0.20/0.35	.....	0.70/0.90	.....	5160
E50100	0.95/1.10	0.25/0.45	0.025	0.025	0.20/0.35	.....	0.40/0.60	.....	50100
E51100	0.95/1.10	0.25/0.45	0.025	0.025	0.20/0.35	.....	0.90/1.15	.....	51100
E52100	0.95/1.10	0.25/0.45	0.025	0.025	0.20/0.35	.....	1.30/1.60	.....	52100
6120	0.17/0.22	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.70/0.90	v Min.	6120
6150	0.48/0.53	0.70/0.90	0.040	0.040	0.20/0.35	.....	0.80/1.10	0.15 Min. Mo	6150
8115	0.13/0.18	0.70/0.90	0.040	0.040	0.20/0.35	0.20/0.40	0.30/0.50	0.80/0.15	8115

(Continued on following page)

See notes page 284

STANDARD OPEN HEARTH & ELECTRIC FURNACE ALLOY STEELS

Revised to March, 1957

AISI Number	C	Mn	P Max.	S Max.	Chemical Composition Limits, Per Cent			Mo	Cr	Ni	Corresponding SAE Number
					Cr	Ni	Si				
8615	0.13/0.18	0.70/0.90	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8615	8615	8615
8617	0.15/0.20	0.70/0.90	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8617	8617	8620
8620	0.18/0.23	0.70/0.90	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8620	8620	8620
TS8620	0.18/0.23	0.70/0.90	0.040	0.040	0.20/0.35	0.30/0.60	0.55/0.75	0.08/0.15	...	...	...
8622	0.20/0.25	0.70/0.90	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8622	8622	8622
8625	0.23/0.28	0.70/0.90	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8625	8625	8625
8627	0.25/0.30	0.70/0.90	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8627	8627	8627
8630	0.28/0.33	0.70/0.90	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8630	8630	8630
8637	0.35/0.40	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8637	8637	8637
8640	0.38/0.43	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8640	8640	8640
8642	0.40/0.45	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8642	8642	8642
8645	0.43/0.48	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8645	8645	8645
8650	0.48/0.53	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8650	8650	8650
8655	0.50/0.60	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8655	8655	8655
8660	0.55/0.65	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.15/0.25	8660	8660	8660
8720	0.18/0.23	0.70/0.90	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.20/0.30	8720	8720	8720
8735	0.33/0.38	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.20/0.30	...	...	...
8740	0.38/0.43	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.20/0.30	8740	8740	8740
8742	0.40/0.45	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.20/0.30	8742	8742	8742
8822	0.20/0.25	0.75/1.00	0.040	0.040	0.20/0.35	0.40/0.70	0.40/0.60	0.30/0.40	8822	8822	8822
9255	0.50/0.60	0.70/0.95	0.040	0.040	1.80/2.20	.....	.....	.....	9255	9255	9255
9260	0.55/0.65	0.70/1.00	0.040	0.040	1.80/2.20	.....	.....	.....	9260	9260	9260
9261	0.55/0.65	0.75/1.00	0.040	0.040	1.80/2.20	.....	.....	0.10/0.25	9261	9261	9261
9262	0.55/0.65	0.75/1.00	0.040	0.040	1.80/2.20	.....	.....	0.25/0.40	9262	9262	9262

(Continued on following page)

STANDARD OPEN HEARTH & ELECTRIC FURNACE ALLOY STEELS

See notes page 284

Revised to March, 1957

Grade	Chemical Composition Limits, Per Cent					
	C	Mn	P Max.	S Max.	Ni	Cr
E9310	0.08/0.13	0.45/0.65	0.025	0.20/0.35	3.00/3.50	1.00/1.40
E9314	0.11/0.17	0.40/0.70	0.025	0.20/0.35	3.00/3.50	1.00/1.40
9840	0.38/0.43	0.70/0.90	0.040	0.20/0.35	0.85/1.15	0.70/0.90
9850	0.48/0.53	0.70/0.90	0.040	0.20/0.35	0.85/1.15	0.70/0.90

* For open hearth steel the manganese is 0.40 to 0.60 per cent.
 ** For electric furnace steel the manganese is 0.65 to 0.85 per cent.

NOTE 1. Grades shown in the above list with prefix letter E generally are manufactured by the basic electric furnace process. All others are normally manufactured by the basic open hearth process but may be manufactured by the basic electric furnace process with adjustments in phosphorus and sulphur.

NOTE 2. The phosphorus and sulphur limitations for each process are as follows:

Basic electric furnace—0.025 maximum per cent
 Basic open hearth —0.040 maximum per cent

NOTE 3. Minimum silicon limit for acid open hearth or acid electric furnace alloy steel is 0.15 per cent.

Acid electric furnace —0.050 maximum per cent
 Acid open hearth —0.050 maximum per cent

NOTE 4. Small quantities of certain elements are present in alloy steels which are not specified or required. These elements are considered as incidental and may be present to the following maximum amounts: Copper, 0.35 per cent; Nickel, 0.25 per cent; Chromium, 0.20 per cent and Molybdenum, 0.06 per cent.

NOTE 5. Where minimum and maximum sulphur content is shown it is indicative of resulfurized steels.

NOTE 6. The chemical ranges and limits shown are subject to the standard variations for check analysis shown in Steel Products Manual.

A.I.S.I. AND S.A.E. STANDARD SPECIFICATIONS FOR CHEMICAL COMPOSITION OF STAINLESS AND HEAT RESISTANT STEELS

A.I.S.I. Type No.	S.A.E. No.	C	Mn Max.	Si Max.	P Max.	S Max.	Cr	Chemical Composition, per cent		Other Elements
								Ni	N	
201	....	0.15 Max.	5.50/7.50	1.00	0.060	0.030	16.00/18.00	3.50/	5.50	N. 0.025 Max.
202	....	0.15 Max.	7.50/10.00	1.00	0.060	0.030	17.00/19.00	4.00/	6.00	N. 0.025 Max.
301	30301	0.15 Max.	2.00	1.00	0.045	0.030	16.00/18.00	6.00/	8.00	.....
302	30302	0.15 Max.	2.00	1.00	0.045	0.030	17.00/19.00	8.00/	10.00	.....
302B	....	0.15 Max.	2.00	2.00/3.00	0.045	0.030	17.00/19.00	8.00/	10.00	.....
303	30303F	0.15 Max.	2.00	1.00	0.200	0.060	17.00/19.00	8.00/	10.00	Zr or Mo Max. 0.60
303 Se	30303F	0.15 Max.	2.00	1.00	0.200	0.060	17.00/19.00	8.00/	10.00	Se 0.15 Min. Zr. or Mo. Max. 0.60
304	30304	0.08 Max.	2.00	1.00	0.045	0.030	18.00/20.00	8.00/	12.00	.....
304L	....	0.03 Max.	2.00	1.00	0.045	0.030	18.00/20.00	8.00/	12.00	.....
305	30305	0.12 Max.	2.00	1.00	0.045	0.030	17.00/19.00	10.00/	13.00	.....
308	....	0.08 Max.	2.00	1.00	0.045	0.030	19.00/21.00	10.00/	12.00	.....
309	30309	0.20 Max.	2.00	1.00	0.045	0.030	22.00/24.00	12.00/	15.00	.....
309S	....	0.08 Max.	2.00	1.00	0.045	0.030	22.00/24.00	12.00/	15.00	.....
310	30310	0.25 Max.	2.00	1.50	0.045	0.030	24.00/26.00	19.00/	22.00	.....
310S	....	0.08 Max.	2.00	1.50	0.045	0.030	24.00/26.00	19.00/	22.00	.....
314	....	0.25 Max.	2.00	1.50/3.00	0.045	0.030	23.00/26.00	19.00/	22.00	.....
316	30316	0.08 Max.	2.00	1.00	0.045	0.030	16.00/18.00	10.00/	14.00	Mo 2.00/3.00
316L	....	0.03 Max.	2.00	1.00	0.045	0.030	16.00/18.00	10.00/	14.00	Mo 2.00/3.00
317	30317	0.08 Max.	2.00	1.00	0.045	0.030	18.00/20.00	11.00/	15.00	Mo 3.00/4.00
321	30321	0.08 Max.	2.00	1.00	0.045	0.030	17.00/19.00	9.00/	12.00	Ti 5xC Min.
30325	....	0.25 Max.	0.60/0.90	1.00/2.00	.....	.....	7.00/10.00	19.00/	23.00	Cu. 1.00/1.50
30330	....	0.25 Max.	2.00	1.50	0.040	0.040	14.00/17.00	33.00/	37.00	.....
30330A	....	0.40/0.50	2.00	1.50	0.040	0.040	14.00/17.00	33.00/	37.00	.....

(Continued on following page)

**AISI AND SAE STANDARD SPECIFICATIONS FOR CHEMICAL COMPOSITION OF
STAINLESS AND HEAT RESISTANT STEELS**

(Continued from preceding page)

AISI Type No.	SAE No.	C	Mn Max.	Si Max.	P Max.	S Max.	Chemical Composition, per cent		Other Elements
							Cr	Ni	
347	30347	0.08 Max.	2.00	1.00	0.045	0.030	17.00/19.00	9.00/13.00	Cb+Ta 10xC Min.
348	....	0.08 Max.	2.00	1.00	0.045	0.030	17.00/19.00	9.00/13.00	Cb+Ta 10xC Min., Ta. 0.10 Max.
403	....	0.15 Max.	1.00	0.50	0.040	0.030	11.50/13.00	....	Al 0.10/0.30
405	....	0.08 Max.	1.00	1.00	0.040	0.030	11.50/14.50	....	....
410	51410	0.15 Max.	1.00	1.00	0.040	0.030	11.50/13.50	....	....
414	51414	0.15 Max.	1.00	1.00	0.040	0.030	11.50/13.50	....	....
416	51416F	0.15 Max.	1.25	1.00	0.060	0.150 Min.	12.00/13.50	1.25/ 2.50	Zr or Mo Max. 0.60
416 Se.	51416F	0.15 Max.	1.25	1.00	0.060	0.060	12.00/14.00	....	Se. 0.15 Min., Zr. or Mo. Max. 0.60
420	51420	Over 0.15	1.00	1.00	0.040	0.030	12.00/14.00	....	....
	51420F	Over 0.15	1.25	1.00	....	....	12.00/14.00	....	P, S, Se, 0.07 Min., Zr, Mo 0.60 Max.
430	51430	0.12 Max.	1.00	1.00	0.040	0.030	14.00/18.00	....	....
	51430F	0.12 Max.	1.25	1.00	0.060	0.150 Min.	14.00/18.00	....	Zr, or Mo Max. 0.60
430F Se.	51430F	0.12 Max.	1.25	1.00	0.060	0.060	14.00/18.00	....	Se. 0.15 Min., Zr or Mo Max. 0.60
431	51431	0.20 Max.	1.00	1.00	0.040	0.030	15.00/17.00	1.25/ 2.50	....
440A	51440A	0.60/0.75	1.00	1.00	0.040	0.030	16.00/18.00	....	Mo 0.75 Max.
440B	51440B	0.75/0.95	1.00	1.00	0.040	0.030	16.00/18.00	....	Mo 0.75 Max.
440C	51440C	0.95/1.20	1.00	1.00	0.040	0.030	16.00/18.00	....	Mo 0.75 Max.
440F	51440F	0.95/1.20	1.25	1.00	....	....	16.00/18.00	....	....
	51442	0.20 Max.	1.00	1.00	0.040	0.040	18.00/23.00	....	P, S, Se, 0.07 Min., Zr, Mo 0.75 Max.
446	51446	0.20 Max.	1.50	1.00	0.040	0.030	23.00/27.00	....	....
501	51501	Over 0.10	1.00	1.00	0.040	0.030	4.00/ 6.00	....	N 0.25 Max.
502	....	0.10 Max.	1.00	1.00	0.040	0.030	4.00/ 6.00	....	Mo 0.40/0.65
									Mo 0.40/0.65

NOTE: No specific composition limits within the above range should be placed on Types 301, 302, 302B and 303 except that carbon may be specified to a 4-point range within the above limits.

©

**HARDNESS CONVERSION TABLE FOR
CONSTRUCTIONAL ALLOY STEELS**

Approximate

Diam. 3000 Kg. 10mm. Ball	Hardness No.	Vickers or Firth	Rockwell			Shore	Tensile Strength 1000 Lb./Sq. In.
			C. Scale 150 Kg. 120 Deg. Cone	B. Scale 100 Kg. 1/16" Ball	Shore		
Mm							
2.20	780	1220	68	...	96	...	
2.25	745	1114	67	...	94	...	
2.30	712	1021	65	...	92	354	
2.35	682	940	63	...	89	341	
2.40	653	867	62	...	86	329	
2.45	627	803	60	...	84	317	
2.50	601	746	58	...	81	305	
2.55	578	694	56	...	78	295	
2.60	555	649	55	...	75	284	
2.65	534	608	53	...	73	273	
2.70	514	587	51	...	71	263	
2.75	495	551	50	...	68	253	
2.80	477	534	48	...	66	242	
2.85	461	502	47	...	64	233	
2.90	444	474	46	...	62	221	
2.95	429	460	44	...	60	211	
3.00	415	435	43	...	58	202	
3.05	401	423	42	...	56	193	
3.10	388	401	41	...	54	185	
3.15	375	390	39	...	52	178	
3.20	363	380	38	...	51	171	
3.25	352	361	37	...	49	165	
3.30	341	344	36	...	48	159	
3.35	331	335	35	...	46	154	
3.40	321	320	34	...	45	148	
3.45	311	312	32	...	43	143	
3.50	302	305	31	...	42	139	
3.55	293	291	30	...	41	135	
3.60	285	285	29	...	40	131	
3.65	277	278	28	...	38	127	
3.70	269	272	27	...	37	124	
3.75	262	261	26	...	36	121	
3.80	255	255	25	...	35	117	
3.85	248	250	24	100	34	115	
3.90	241	240	23	99	33	112	
3.95	235	235	22	99	32	109	
4.00	229	226	21	98	32	107	
4.05	223	221	20	97	31	105	
4.10	217	217	18	96	30	103	
4.15	212	213	17	95	30	100	
4.20	207	209	16	95	29	98	
4.30	197	197	14	93	28	95	
4.40	187	186	12	91	27	91	
4.50	179	177	10	89	25	87	
4.60	170	171	8	87	24	84	
4.70	163	162	6	85	23	81	
4.80	156	154	4	83	23	78	
4.90	149	149	2	81	22	76	
5.00	143	144	0	79	21	74	
5.10	137	136	-3	77	20	71	

Courtesy International Nickel Company, Inc. New York, New York

AVERAGE PROPERTIES OF STANDARD STEELS

These figures show the APPROXIMATE ranges of physical properties of steels in common use in 1" Rounds. Lower range tensile properties are to be expected in large sections, while high properties may apply to smaller sections. They are NOT GUARANTEED and are given only as an indication of what may be expected and should under no circumstances be used in specifying size of section, rolling conditions, grain size and methods of heat treatment. Dependable physical properties can only be obtained through carefully controlled heat treatment. These figures cannot be used as a basis of acceptance.

AISI Number	SAE Number	Condition of Bar Steel	Tensile Strength P.S.I.	Yield P.S.I.	% Elong. in 2"	% Red. of Area	Hardness		Machinability % of B1112 CD	C. S. & W. Color
							Brinell	Rockwell		
Mild Steel		Natural Hot Rolled.....	50/60,000	30/40,000	30/40	55/65	115 Avg.	170/185	50/55	.....
B1112	1112	Cold Drawn Bessemer.....	75/90,000	60/70,000	12/16	40/50	80/95B	100	100	Red
B1113	1113	Cold Drawn Bessemer.....	80/95,000	70/80,000	12/16	40/50	85/95B	120/140	120/140	Lavender
C1213	1113	Cold Drawn Bessemer.....	78/93,000	70/80,000	11/16	35/45	175/190	130/155	130/155	Lavender
Leaded OH1113		Cold Drawn Screw Stock (Ledloy).....	70/85,000	65/75,000	12/20	40/50	80/95B	120/140	120/140	White
Super Leaded 1113		Cold Drawn (Super Ledloy).....	75/90,000	65/80,000	12/18	40/50	160/180	80/95B	150/180	Black
C1015	1015	Natural Hot Rolled.....	70/85,000	60/75,000	14/20	45/55	170/190	160/180	160/190	Black
C1018	1018	Natural Hot Rolled.....	50/65,000	32/45,000	30/40	55/65	110 Avg.	120/140	120/140	Green
Cold Drawn.....		55/70,000	40/50,000	25/35	50/65	120/140	160/180	160/180	160/180	Green
1 st Rd. Carburized at 1700° F.: Cool in box:		70/85,000	50/70,000	18/25	45/55	160/180	80/90B	80/90B	80/90B	Green
Reheated 1625° F., Water Quenched—										Green
Core Properties.....		90/100,000	60/80,000	10/22	35/50	200/230	93/98B	93/98B	93/98B	.....
As Rolled.....		60/80,000	40/50,000	25/35	50/65	120/145	60/98B	60/98B	60/98B	.....
Cold Drawn.....		70/80,000	45/70,000	15/25	45/60	120/160	70/85B	70/85B	70/85B	.....
Natural Hot Rolled.....		60/70,000	37/47,000	20/30	45/60	135/150	80/90B	80/90B	80/90B	.....
Cold Drawn.....		80/90,000	60/75,000	15/20	40/50	160/190	80/90B	80/90B	80/90B	.....
1 st Rd. Carburized at 1700° F.: Cool in box:										.....
Reheat 1625° F., Water Quenched—										.....
Core Properties.....		95/110,000	60/85,000	10/25	35/50	210/240	15/22C	15/22C	15/22C	.....

(Continued on following page)

AVERAGE PROPERTIES OF STANDARD STEELS (Continued)

AVERAGE PROPERTIES OF STANDARD STEELS (Continued)

A.I.S.I. Number	S.A.E. Number	Condition of Bar Steel	Tensile Strength P.S.I.	Yield P.S.I.	% Elong. in 2"	% Red. of Area	Hardness		Machinability % of B1112 CD	C. S. & W. Color
							Brinell	Rockwell		
C1035	1035	Natural Hot Rolled.....	75/85,000	40/55,000	18/25	40/55	155/175	85/95B	60	Blue
		Cold Drawn.....	85/95,000	65/80,000	15/25	40/50	170/200	85/95B	65	Blue
	1040	1" Rd. Water Quenched 1550° F.....	95/105,000	70/80,000	20/25	55/60	195/220	93/98B	55	
		Tempered 1000° F.....	80/90,000	45/55,000	18/25	35/50	165/185	91/98B	60	Yellow and Blue
C1040	1040	Natural Hot Rolled.....	90/100,000	70/85,000	14/20	35/50	190/215	91/98B	62	
		Cold Drawn.....	90/100,000	70/85,000	14/20	35/50	190/215	91/98B	62	
	1042	1" Rd. Water Quenched 1550° F.....	100/110,000	75/85,000	15/25	45/60	210/240	17/23C	52	
		Tempered 1000° F.....	100/110,000	75/85,000	15/25	30/45	175/205	185/215	58	Yellow
C1042	1042	Natural Hot Rolled.....	85/95,000	50/60,000	15/25	30/45	175/205	185/215	60	Yellow
		Cold Drawn.....	90/105,000	75/90,000	12/20	30/45	175/205	185/215	60	Yellow
	1045	1" Rd. Water Quenched 1525° F.....	105/120,000	80/90,000	15/25	40/60	215/250	215/250	47	
		Tempered 1000° F.....	105/120,000	80/90,000	15/25	35/45	175/215	195/230	55	Yellow
C1045	1045	Natural Hot Rolled.....	85/105,000	50/65,000	15/25	30/45	175/215	195/230	58	Yellow
		Cold Drawn.....	90/110,000	75/90,000	12/20	30/45	175/215	195/230	58	Yellow
	1137	1" Rd. Water Quenched 1500° F.....	110/130,000	80/95,000	12/25	40/55	235/260	22/26C	47	
		Tempered 1000° F.....	110/130,000	80/95,000	12/25	40/55	235/260	22/26C	47	
C1137	1137	Natural Hot Rolled.....	90/105,000	57/70,000	15/25	35/50	180/220	91/98B	65	
		Cold Drawn.....	90/110,000	75/90,000	9/19	25/45	190/225	91/98B	70	Red Dot
	1141	1" Rd. Water Quenched 1550° F.....	115/130,000	90/105,000	15/22	40/55	250/280	24/28C	55	
		Tempered 1000° F.....	115/130,000	90/105,000	15/22	25/45	180/220	195/230	65	Aluminum
C1141	1141	Natural Hot Rolled.....	90/110,000	60/80,000	15/25	20/50	180/220	195/230	70	Aluminum
		Cold Drawn.....	100/120,000	85/105,000	8/18	20/50	180/220	195/230	70	Aluminum
	1144	1" Rd. Water Quench 1550° F.....	120/145,000	100/130,000	10/20	35/50	270/310	200/240	75	Brown
		Tempered 1000° F.....	120/145,000	100/130,000	10/20	30/45	270/310	210/245	85	Brown
C1144	1144	Natural Hot Rolled.....	95/110,000	60/85,000	15/25	20/45	200/240	17/23C	75	
		Cold Drawn.....	100/120,000	90/115,000	7/17	20/45	200/240	17/23C	85	
C1144	1144	1" Rd. Water Quenched 1550° F.....	130/150,000	110/130,000	15	45	286/302	29/31C	.......
		Tempered 1000° F.....	130/150,000	110/130,000	15	45	286/302	29/31C	.......

(Continued on following page)

AVERAGE PROPERTIES OF STANDARD STEELS (Continued)

A.I.S.I. Number	S.A.E. Number	Condition of Bar Steel	Tensile Strength P.S.I.	Yield P.S.I.	% Elong. in 2"	% Red. of Area	Hardness		Machinability % of B1112 CD	C. S. & W. Color
							Briell	Rockwell		
Stressproof	Cold Drawn Stress Relieved		125,000	100,000 Min.	10	30	255	25C	83	Brown and Orange
Fatigue Proof	Ground and Polished. Elevated Temperature Drawing		150,000	125,000 Min.	5/15	15/30	.....	32C	80	Green and Orange
C1050 1050	Natural Hot Rolled. 1" Rd. Water Quench 1500° F. Tempered 1000° F. Hot Rolled Annealed. 1" Rd. Water Quench 1450° F. Tempered 1000° F.		95/110,000	55/70,000	15/20	25/40	210/235	.....	50	Yellow
C1095 1095	115/135,000 90/110,000		85/100,000 55/65,000	10/22 15/25	35/50 40/50	240/265 190/220	23/27C	.....	45	Purple
1340 1340	170/180,000		120/130,000	10/13	30/40	360/380	38/40C	.....	60	
2317 2317	Natural Hot Rolled. 1" Rd. Oil Quenched 1550° F. Tempered 1000° F. Natural Hot Rolled 1700° F.: Cooled in box; Reheat 1525° F., Oil Quenched—		90/110,000 125/140,000 70/85,000	60/75,000 100/120,000 50/65,000	15/25 15/20 25/35	35/50 45/50 58/65	190/235 270/300 140/170	12/22C 27/31C 77/87B	..... 50	
2340 2340	Core Properties Natural Hot Rolled. Annealed Hot Rolled. 1" Rd. Oil Quench 1500° F. Tempered 1000° F. 3" Rd. Oil Quench 1500° F. Tempered 1000° F.		140/160,000 100/115,000 95/105,000 130/140,000 115/125,000 90/100,000 65/80,000 85/95,000	110/120,000 65/80,000 55/70,000 20/26 115/125,000 20/25 55/65,000 70/80,000	12/18 15/20 20/26 15/25 50/60 20/25 25/35 15/25	35/45 35/50 41/53 50/60 50/55 55/65, 50/60	310/350 210/250 200/225 280/305 240/260 130/160 170/200	32/37C 17/24C 93/97B 28/32C 23/26C 75/85B 87/93B	..... 50	
3115 3115	Cold Drawn. 1" Rd. Carburized 1700° F.: Cool in box; Reheat 1525° F., Oil Quenched— Core Properties		125/135,000	85/100,000	14/20	40/50	280/300	27/31	.....

(Continued on following page)

AVERAGE PROPERTIES OF STANDARD STEELS (Continued)

A.I.S.I. Number	S.A.E. Number	Condition of Bar Steel	Tensile Strength P.S.I.	Yield P.S.I.	% Elong. in 2"	% Red. of Area	Hardness		Machinability % of B112 CD	C. S. & W. Color
							Brinell	Rockwell		
3140	3140	Hot Rolled Annealed.....	95/105,000	60/70,000	20/30	50/60	195/215	92/95B	55	
		1" Rd. Oil Quench 1550° F.; Tempered 1000° F.....	140/150,000	120/130,000	15/20	50/60	300/325	31/35C	30	
		3" Rd. Oil Quench 1550° F; Tempered 1000° F.....	115/125,000	80/90,000	17/22	50/60	240/265	23/27C	.....
		Hot Rolled Annealed.....	110/120,000	70/80,000	15/25	50/60	220/250	20/25C	50	
3150	3150	3" Rd. Oil Quench 1550° F; Tempered 1000° F.....	130/145,000	110/120,000	15/20	50/60	285/310	29/32C	40	
		4" Rd. Oil Quench 1550° F; Tempered 1000° F.....	125/135,000	100/110,000	15/22	50/60	270/285	27/29C	.....
		Hot Rolled Annealed.....	90/100,000	60/70,000	20/30	50/60	185/210	91/95B	55	
		Cold Drawn Annealed.....	110/120,000	85/95,000	15/25	45/55	230/250	20/25C	65	
4142	4142	Heat Treated C. D.	140/155,000	125/140,000	12/20	45/55	270/300	26/30C	45	
		1" Rd. Oil Quench 1550° F; Tempered 1000° F.....	150/160,000	130/140,000	15/20	50/60	320/350	34/37C	.....
		2" Rd. Oil Quench 1550° F; Tempered 1000° F.....	145/155,000	125/135,000	15/20	50/60	320/345	33/36C	.....
		3" Rd. Oil Quench 1550° F; Tempered 1000° F.....	130/145,000	115/125,000	15/20	55/65	280/310	28/32C	.....
4147-50	4150	Hot Rolled Annealed.....	90/105,000	65/75,000	20/30	50/60	185/215	92/96B	52	
		1" Rd. Oil Quench 1525° F; Tempered 1000° F.....	170/180,000	145/155,000	15/20	50/60	350/375	37/39C	.....
		3" Rd. Oil Quench 1525° F; Tempered 1000° F.....	150/160,000	130/140,000	15/20	50/60	335/350	34/37C	.....
		4" Rd. Oil Quench 1525° F; Tempered 1000° F.....	140/150,000	120/130,000	15/20	50/60	300/330	31/35C	.....
		5" Rd. Oil Quench 1525° F; Tempered 1000° F.....	135/150,000	115/125,000	15/22	52/62	295/320	30/34C	.....

(Continued on following page)

AL
04
05
06
07
08
09
10
11
12
13
14
016
020
022
024
026
029
031
033
035
037
039
041
043
045
047
049
051
055
059
063
067
071
075
080
085
090
095
106
112
124
MUSI
WIR

AVERAGE PROPERTIES OF STANDARD STEELS (Continued)

A.I.S.I. Number	S.A.E. Number	Condition of Bar Steel	Tensile Strength P.S.I.	Yield P.S.I.	% Elong. in 2"	% Red. of Area	Hardness		Machinability % of B1112 CD	C. S. & W. Color
							Brinell	Rockwell		
4340	4340	Hot Rolled Annealed	100/120,000	70/90,000	15/25	40/50	220/250	20/25C	45	Purple and Aluminum
		2" Rd. Oil Quench 1550° F.	.....	175/190,000	12/18	48/55	370/400	38/42C	.....
		3" Rd. Oil Quench 1550° F.	.....	155/170,000	12/20	45/50	350/375	36/39C	.....
		Tempered 1000° F.	.....	140/155,000	12/20	40/50	330/360	35/38C	.....
		4" Rd. Oil Quench 1550° F.	.....	160/170,000	12/20	40/50	300/330	31/36C	.....
		5" Rd. Oil Quench 1550° F.	.....	135/145,000	10/15	40/50	240/320	30/35C	50	Green and Yellow
		Tempered 1000° F.	.....	125/135,000	10/15	40/50	200/280	20/24C	50	
		6" Rd. Oil Quench 1550° F.	.....	145/160,000	10/15	40/50	180/220	20/24C	55	
		Tempered 1000° F.	.....	120/130,000	10/15	40/50	145/180	80/83B		
		Natural Hot Rolled	140/150,000	53/63,000	25/35	58/68	91/96B			
4615	4615	Cold Drawn.	75/85,000	75/85,000	15/22	50/60	190/215			
		1" Rd. Carburized 1700° F.; Cool in box;	90/100,000	.....	.....	.....	.....	.....
		Reheat 1525° F., Oil Quench—Core Properties	110/125,000	80/100,000	18/23	50/60	220/250	20/24C	50	
		Natural Hot Rolled as Rolled	80/110,000	60/75,000	20/30	50/60	180/220	20/24C	50	Yellow and Green
		1" Rd. Carburized 1700° F.; Cool in box; Reheat 1525° F., Oil Quench—Core Properties	115/130,000	80/100,000	15/25	45/55	240/270	24/30C	50	
		Natural Hot Rolled as Rolled	100/110,000	65/75,000	20/30	50/60	210/230	95/99B	50	Green and Brown
		1" Rd. Carburized 1700° F.; Cool in box; Reheat 1525° F., Oil Quench—Core Properties	140/160,000	120/140,000	14/18	45/55	300/340	33/38C	45	
		Hot Rolled Annealed	100/110,000	75/85,000	20/25	50/60	210/235	.....	
		1" Rd. Oil Quench 1500° F.	.....	65/180,000	10/15	35/45	375/415	40/43C	.....
		Tempered 1000° F.	.....	95/110,000	20/30	50/60	200/230	14/21C	50	Blue and Red
E52100	52100	Hot Rolled Annealed	95/110,000	75/85,000	12/17	45/55	360/390	38/41C	.....
		1" Rd. Oil Quench 1500° F.	.....	170/185,000	150/160,000	12/17	.....	.....
6150	6150	Hot Rolled Annealed	1" Rd. Oil Quench 1575° F.	.....	.....	.....	.....	.....
		Tempered 1000° F.	.....	170/185,000	150/160,000	12/17	.....	.....

(Continued on following page)

AVERAGE PROPERTIES OF STANDARD STEELS (Continued)

A.I.S.I. Number	S.A.E. Number	Condition of Bar Steel	Tensile Strength P.S.I.	Yield P.S.I.	% Elong. in 2"	% Red. of Area	Hardness		Machinability % of B112 CD	C. S. & W. Color
							Brinell	Rockwell		
8620	8620	Natural Hot Rolled..... Cold Drawn..... 1" Rd. Carburized 1700° F.; Cool in box; Reheat 1550° F., Oil Quench— Core Properties.....	80/95,000 90/105,000	55/65,000 65/80,000	18/25 15/25	45/60 40/50	160/200 185/215	85/95B 90/96B	55 60/70	Pink and White }
8642	8642	Natural Hot Rolled..... Hot Rolled Heat Treated..... Cold Drawn Annealed..... 1" Rd. Oil Quench 1550° F. Tempered 1000° F..... 2" Rd. Oil Quench 1550° F. Tempered 1000° F.....	90/120,000 125,000 Min. 100/110,000	50/70,000 105,000 Min. 90/100,000	15/25 16 Min. 13/20	35/50 50 Min. 40/50	210/260 260/320 195/220	17/27C 26/33 93/98B	50/55 45/50 65	Pink and Yellow Orange Pink and Yellow
8645	8645	Natural Hot Rolled..... Annealed Hot Rolled..... 2" Rd. Oil Quench 1550° F. Tempered 1000° F..... 3" Rd. Oil Quench 1550° F. Tempered 1000° F.....	105/125,000 100/110,000	55/75,000 50/60,000	15/25 20/25	35/50 40/55	220/270 210/230	20/28C 17/21C	48/55 54	Pink and Yellow
8742	8742	Natural Hot Rolled..... Cold Drawn Annealed..... 1" Rd. Oil Quench 1550° F. Tempered 1000° F..... 2" Rd. Oil Quench 1550° F. Tempered 1000° F.....	110/125,000 105/110,000	50/70,000 95/105,000	15/25 10/18	35/50 35/45	230/270 210/235	22/28C 95/99B	45/55 60	Pink and Yellow Pink and Yellow

(Continued on following page)

AVERAGE PROPERTIES OF STANDARD STEELS (Continued)

A.I.S.I. Number	S.A.E. Number	Condition of Bar Steel	Tensile Strength P.S.I.	Yield P.S.I.	% Elong. in 2 In.	% Red. of Area	Hardness		Machinability % of B112 CD	C. S. & W. Color
							Brinell	Rockwell		
8745	8745	Natural Hot Rolled.....	110/135,000	55/70,000	15/25	30/45	230/290	22/30C	40/50	Pink and Yellow
		Annealed Hot Rolled.....	105/115,000	52/65,000	20/25	35/45	220/250	19/24C	50	
		2" Rd. Oil Quench 1550° F.								
		Tempered 1000° F.....	150/160,000	115/130,000	14/18	45/50	320/340	34/36C	.....
		3" Rd. Oil Quench 1550° F.								
		Tempered 1000° F.....	140/150,000	110/120,000	14/18	45/55	310/330	32/35C	.....
Type 302	30302	Annealed Bars.....								
		80/90,000	30/40,000	55/65	65/75	150/180	80/90B	45		
Type 304	30304	C. R. Sheets.....	80/90,000	30/40,000	55/65	65/75	.....	80/90B	.....
Type 303	30303F	Annealed Bars.....	85/95,000	30/40,000	45/55	50/60	160/180	83/89B	70/80	.....
		Annealed C. D. Bars.....	90/110,000	50/70,000	35/45	45/55	160/255	83/100B	.....
Type 316	30316	Annealed Bars.....	75/90,000	30/40,000	40/50	60/70	150/180	80/90B	45	
		C. R. Sheets.....	80/90,000	25/40,000	55/65	65/75	.....	80/90B	.....
Type 321	30321	Annealed Bars.....	80/90,0000	30/40,000	50/60	60/70	140/165	75/85B	45	
		Annealed C. D. Bars.....	85/110,000	50/70,000	35/45	45/55	163/255	85/100B	45	
		C. R. Sheets.....	80/100,000	30/40,000	50/60	60/70	.....	75/85B	.....
Type 410	51410	Annealed Bars.....	70/100,000	35/45,000	30/40	50/60	150/200	80/90 B	55	
Type 416	51416	Annealed Bars.....	80/100,000	55/65,000	15/25	40/50	190/220	90/95B	90	.....
		Heat Treated Bars.....	135/155,000	110/130,000	10/15	38/45	260/320	25/34C	.....
Type 440F	51440F	Annealed Bars.....	100/120,000	60/70,000	10/15	20/30	200/260	14/25C	30	

.40 to .50 CARBON FREE MACHINING PLATE

Carbon.....	.40/.50	Sulphur.....	.20/.30
Manganese.....	.90/1.30	Silicon.....	.10/.30
Phosphorus.....	.040 Max.		

ABRASION RESISTING STEEL

CHEMICAL COMPOSITION—

Carbon.....	.35/.50
Manganese.....	.150/2.00
Phosphorus.....	.050 Max.
Sulphur.....	.055 Max.
Silicon.....	.15/.35

HARDNESS—(For Information Purposes Only)

Brinell.....	200/250
--------------	---------

SHEARING—

$\frac{1}{2}$ " Thick and Under—Room Temperature
Over $\frac{1}{2}$ " to 1" Thick—Preheat to 600°/800°F
Over 1" Thick—Gas Cut

COR-TEN STEEL*

	$\frac{1}{2}$ in. and under in Thickness	Over $\frac{1}{2}$ to $1\frac{1}{2}$ in. incl.	Over $1\frac{1}{2}$ to 3 in. incl.
Yield Point, min., psi	50,000	47,000	43,000
Tensile Strength, min. psi.....	70,000	67,000	63,000
Elong. in 2 in., min. per cent.....	22	—	24
Elong. in 8 in., min., per cent .180 in. and heavier.....	18	19	20
Cold Bend.....	180° D = 1t	180° D = 2t	180° D = 3t

ADDITIONAL TYPICAL PROPERTIES FOR ENGINEERING GUIDANCE

Resistance to atmospheric corrosion.....	4 to 6 times carbon steel
Compressive Yield Point, psi.....	Equal to Tensile Yield Point
Shearing Strength, psi.....	Equal to $\frac{3}{4}$ Tensile Strength
Modulus of Elasticity, psi.....	28,000,000 to 30,000,000
Endurance Limit, (as rolled, avg.) psi.....	42,000
Charpy Impact, keyhole notch, (as rolled, room temp. avg.) ft-lb.....	40
Coefficient of Expansion per degree F, 70° to 200° F.....	.0000063

CHEMICAL COMPOSITION (For information purposes only)

Composition Range, per cent	C	Mn	P	S	Si	Cu	Cr	Ni
	.12 max.	.20/.50	.07/.15	.05 max.	.25/.75	.25/.55	.30/1.25	.65 max.
Typical Compositon, per cent.....	.09	.38	.09	.033	.48	.41	.84	.28

FABRICATING PRACTICE FOR COLD FORMING

Thickness of Material	Suggested Min. Inside Radius
Up to $\frac{1}{16}$ in. incl.....	1t
Over $\frac{1}{16}$ to $\frac{1}{4}$ in. incl.....	2t
Over $\frac{1}{4}$ to $\frac{1}{2}$ in. incl.....	3t

Hot forming is recommended for thicknesses over $\frac{1}{2}$ inch.

*"COR-TEN" a registered trademark of United States Steel.

NOMINAL COMPOSITION OF WROUGHT ALLOYS⁽¹⁾

Alloy	Per Cent of Alloying Elements—Aluminum and Normal Impurities Constitute Remainder							
	Copper	Silicon	Manganese	Magnesium	Zinc	Nickel	Chromium	Lead	Bismuth
EC	99.45 per cent minimum aluminum							
1060	99.6 per cent minimum aluminum							
1100	99 per cent minimum aluminum							
2EC	...	0.4	...	0.6	...	...	...	...
2011	5.5	...	...	...	...	...	...	0.5
2014 ²	4.4	0.8	0.8	0.4	...	...	...	...
2017	4.0	...	0.5	0.5	...	...	...	...
2018	4.0	...	...	0.6	...	2.0	...	...
2024 ²	4.5	...	0.6	1.5	...	...	...	...
2025	4.5	.08	0.8	...	...	...	...	...
2117	2.5	...	...	0.3	...	...	...	...
2218	4.0	...	...	1.5	...	2.0	...	...
3003 ²	...	...	1.2	...	...	...	...	...
3004 ²	...	...	1.2	1.0	...	...	...	...
4032	0.9	12.2	...	1.1	...	0.9	...	...
4043	...	5.0	...	...	...	...	...	...
5050	...	...	...	1.4	...	...	...	...
5052	...	...	...	2.5	...	...	0.25	...
5056	...	...	0.1	5.2	...	...	0.1	...
5154	...	...	...	3.5	...	...	0.25	...
6053	...	0.7	...	1.3	...	...	0.25	...
6061 ²	0.25	0.6	...	1.0	...	...	0.25	...
6062	0.25	0.6	...	1.0	...	...	0.06	...
6063	...	0.4	...	0.7	...	...	...	...
6151	...	1.0	...	0.6	...	...	0.25	...
7072	...	...	...	...	1.0	...	...	...
7075 ²	1.6	...	...	2.5	5.6	...	0.3	...
7079	0.6	...	0.2	3.3	4.3	...	0.20	...
7277	1.25	...	...	2.0	4.0	...	0.25	...

(¹)Heat-treatment symbols have been omitted since composition does not vary for different heat-treatment practices.

(²)The Alclad form of these alloys consist of a "core" of the base alloy coated with pure aluminum or a suitable alloy.

TYPICAL^①
MECHANICAL PROPERTIES OF WROUGHT ALLOYS

Alloy and Temper	Tensile Strength, 1000 Lbs./Square Inch	Yield Strength (Offset = 0.2%) 1000 Lbs./Square Inch	Elongation, Per Cent in 2 In.			Brinell Hardness, 500-kg. Load 10-mm. Ball	Shearing Strength, 1000 Lbs./Square Inch	Endurance Limit, ² 1000 Lbs./Square Inch
			Sheet Specimen ($\frac{1}{16}$ Inch Thick)	Round Specimen ($\frac{1}{2}$ Inch Diam.)	10-mm. Ball			
EC-O ³	12.0	4.0	..	..	..	8.0	..	..
EC-H12	14.0	12.0	..	..	..	9.0	..	..
EC-H14	16.0	14.0	..	..	..	10.0	..	..
EC-H16	18.0	16.0	..	..	..	11.0	..	..
EC-H19	27.0	24.0	..	..	..	15.0	7.0	..
1100-O	13.0	5.0	35	45	23	9.0	5.0	..
1100-H12	16.0	15.0	12	25	28	10.0	6.0	..
1100-H14	18.0	17.0	9	20	32	11.0	7.0	..
1100-H16	21.0	20.0	6	17	38	12.0	9.0	..
1100-H18	24.0	22.0	5	15	44	13.0	9.0	..
1060-O	10.0	4.0	43	..	19	7.0	3.0	..
1060-H12	12.0	11.0	16	..	23	8.0	4.0	..
1060-H14	14.0	13.0	12	..	26	9.0	5.0	..
1060-H16	16.0	15.0	8	..	30	10.0	6.5	..
1060-H18	19.0	18.0	6	..	35	11.0	6.5	..
2011-T3	55.0 ^⑥	43.0 ^⑥	..	15	95	32.0	18.0	..
2011-T6	57.0	39.0	..	17	97	34.0	18.0	..
2011-T8	59.0	45.0	..	12	100	35.0	18.0	..
2014-O	27.0	14.0	..	18	45	18.0	13.0	..
2014-T4	62.0	42.0 ^⑫	..	20	105	38.0	20.0	..
2014-T6	70.0 ^⑦	60.0 ^⑦	..	13	135	42.0	18.0	..
Alclad 2014-O	25.0	10.0	21	..	..	18.0	..	..
Alclad 2014-T3	63.0 ^⑧	40.0 ^⑧	20	..	..	37.0	..	..
Alclad 2014-T4	61.0 ^⑨	37.0 ^⑨	22	..	..	37.0	..	..
Alclad 2014-T6	68.0 ^⑩	60.0 ^⑩	10	..	..	41.0	..	..
2017-O	26.0	10.0	..	22	45	18.0	13.0	..
2017-T4	62.0	40.0	..	22	105	38.0	18.0	..
2018-T61	61.0	46.0	..	12	120	39.0	17.0	..
2024-O	27.0	11.0	20	22	47	18.0	13.0	..
2024-T3	70.0	50.0	18	..	120	41.0	20.0	..
2024-T36	72.0	57.0	13	..	130	42.0	18.0	..
2024-T4	68.0 ^⑦	47.0 ^⑦	20	19	120	41.0	20.0	..
Alclad 2024-O	26.0	11.0	20	..	..	18.0	..	..
Alclad 2024-T3	65.0 ^⑪	45.0 ^⑪	18	..	..	40.0	..	..
Alclad 2024-T36	67.0 ^⑪	53.0 ^⑪	11	..	..	41.0	..	..
Alclad 2024-T4	64.0 ^⑪	42.0 ^⑪	19	..	..	40.0	..	..
Alclad 2024-T81	65.0 ^⑪	60.0 ^⑪	6	..	..	40.0	..	..
Alclad 2024-T86	70.0 ^⑪	66.0 ^⑪	6	..	..	42.0	..	..
2025-T6	58.0	37.0	..	19	110	35.0	18.0	..
2117-T4	43.0	24.0	..	27	70	28.0	14.0	..
2218-T72	48.0	37.0	..	11	95	30.0	..	..
3003-O	16.0	6.0	30	40	28	11.0	7.0	..
3003-H12	19.0	18.0	10	20	35	12.0	8.0	..
3003-H14	22.0	21.0	8	16	40	14.0	9.0	..
3003-H16	26.0	25.0	5	14	47	15.0	10.0	..
3003-H18	29.0	27.0	4	10	55	16.0	10.0	..
Alclad 3003-O	16.0	6.0	30	40	..	11.0	..	..
Alclad 3003-H12	19.0	18.0	10	20	..	12.0	..	..
Alclad 3003-H14	22.0	21.0	8	16	..	14.0	..	..
Alclad 3003-H16	26.0	25.0	5	14	..	15.0	..	..
Alclad 3003-H18	29.0	27.0	4	10	..	16.0	..	..

(Continued on following page)

See footnotes, page 299.

TYPICAL⁽¹⁾
MECHANICAL PROPERTIES OF WROUGHT ALLOYS

(Continued from preceding page)

Alloy and Temper	Tensile Strength 1000 Lbs./Square Inch	Yield Strength (Offset = 0.2%) 1000 Lbs./Square Inch	Elongation Per Cent in 2 In.		Brinell Hardness, 500-kg. Load 10-mm. Ball	Shearing Strength, 100 Lbs./Square Inch	Endurance Limit, ² 1000 Lbs./Square Inch
			Sheet Specimen ($\frac{1}{16}$ Inch Thick)	Round Specimen ($\frac{1}{2}$ Inch Diam.)			
3004-O	26.0	10.0	20	25	45	16.0	14.0
3004-H32	31.0	25.0	10	17	52	17.0	15.0
3004-H34	35.0	29.0	9	12	63	18.0	15.0
3004-H36	38.0	33.0	5	9	70	20.0	16.0
3004-H38	41.0	36.0	5	6	77	21.0	16.0
Alclad 3004-O	26.0	10.0	20	25	..	16.0	..
Alclad 3004-H32	31.0	25.0	10	17	..	17.0	..
Alclad 3004-H34	35.0	29.0	9	12	..	18.0	..
Alclad 3004-H36	38.0	33.0	5	9	..	20.0	..
Alclad 3004-H38	41.0	36.0	5	6	..	21.0	..
4032-T6	55.0	46.0	..	9	120	38.0	16.0
5005-O	18.0	6.0	30	..	28	11.0	..
5005-H12	20.0	19.0	10	..	..	14.0	..
5005-H14	23.0	22.0	6	..	..	14.0	..
5005-H16	26.0	25.0	5	..	..	15.0	..
5005-H18	29.0	28.0	4	..	..	16.0	..
5005-H32	20.0	17.0	11	..	36	14.0	..
5005-H34	23.0	20.0	8	..	41	14.0	..
5005-H36	26.0	24.0	6	..	46	15.0	..
5005-H38	29.0	27.0	5	..	51	16.0	..
5050-O	21.0	8.0	24	..	36	15.0	12.0
5050-H32	25.0	21.0	9	..	46	17.0	13.0
5050-H34	28.0	24.0	8	..	53	18.0	13.0
5050-H36	30.0	26.0	7	..	58	19.0	14.0
5050-H38	32.0	29.0	6	..	63	20.0	14.0
5052-O	28.0	13.0	25	30	47	18.0	16.0
5052-H32	33.0	28.0	12	18	60	20.0	17.0
5052-H34	38.0	31.0	10	14	68	21.0	18.0
5052-H36	40.0	35.0	8	10	73	23.0	19.0
5052-H38	42.0	37.0	7	8	77	24.0	20.0
5056-O	42.0	22.0	..	35	65	26.0	20.0
5056-H18	63.0	59.0	..	10	105	34.0	22.0
5056-H38	60.0	50.0	..	15	100	32.0	22.0
5154-O	35.0	17.0	27	..	58	22.0	17.0
5154-H112	35.0	17.0	25	..	63	..	17.0
5154-H32	39.0	30.0	15	..	67	22.0	18.0
5154-H34	42.0	33.0	13	..	78	24.0	19.0
5154-H36	45.0	36.0	12	..	83	26.0	20.0
5154-H38	48.0	39.0	10	..	87	28.0	21.0
5357-O	19.0	7.0	25	..	32	12.0	..
5357-H32	22.0	19.0	9	..	40	13.0	..
5357-H34	25.0	22.0	8	..	45	15.0	..
5357-H36	28.0	26.0	7	..	51	17.0	..
5357-H38	32.0	30.0	6	..	55	18.0	..
6053-O	16.0	8.0	..	35	26	11.0	8.0
6053-T6	32.0	37.0	..	13	80	23.0	13.0
6061-O	18.0	8.0	25	30	30	12.0	9.0
6061-T4	35.0	21.0	22	25	65	24.0	14.0
6061-T6	45.0 ⁽¹⁾	40.0 ⁽¹⁾	12	17	95	30.0	14.0

(Continued on following page)

See footnotes, page 299

TYPICAL⁽¹⁾
MECHANICAL PROPERTIES OF WROUGHT ALLOYS

(Continued from preceding page)

Alloy and Temper	Tensile Strength, 1000 Lbs./Square Inch	Yield Strength (Offset = 0.2%), 1000 Lbs./Square Inch	Elongation, Per Cent in 2 In.		Brinell Hardness, 500-kg. Load 10-mm. Ball	Shearing Strength, 1000 Lbs./Square Inch	Endurance Limit, ² 1000 Lbs./Square Inch
			Sheet Specimen ($\frac{1}{16}$ Inch Thick)	Round Specimen ($\frac{1}{2}$ Inch Diam.)			
Alclad 6061-O	17.0	7.0	25	...	...	11.0	...
Alclad 6061-T4	33.0	19.0	22	...	...	22.0	...
Alclad 6061-T6	42.0	37.0	12	...	...	27.0	...
6062-O	18.0	8.0	..	30	30	12.0	9.0
6062-T4	35.0	21.0	..	25	65	24.0	14.0
6062-T6	45.0	40.0	..	17	95	30.0	14.0
6063-O	13.0	7.0	..	...	25	10.0	8.0
6063-T4	25.0	13.0	22	..	..	..	...
6063-T42	22.0	13.0	20	..	42	14.0	9.0
6063-T5	27.0	21.0	12	..	60	17.0	10.0
6063-T6	35.0	31.0	12	..	73	22.0	10.0
6063-T83	37.0	35.0	9	..	82	22.0	..
6063-T831	30.0	27.0	10	..	70	18.0	..
6063-T832	42.0	39.0	12	..	95	27.0	..
6151-T6	48.0	43.0	..	17	100	32.0	11.0
7075-O	33.0	15.0	17	16	60	22.0	...
7075-T6	83.0 ⁽¹⁰⁾	73.0 ⁽¹⁰⁾	11	11	150	48.0	23.0
Alclad 7075-O	32.0	14.0	17	..	..	22.0	...
Alclad 7075-T6	76.0	67.0	11	..	..	46.0	...
7079-T6	78.0	68.0	..	14	145	45.0	23.0

⁽¹⁾ These typical properties are average for various forms, sizes and methods of manufacture, and may not exactly describe any one particular product.

⁽²⁾ Based on 500,000,000 cycles of completely reversed stress using the R. R. Moore type of machine and specimen.

⁽³⁾ Electrical conductor grade, 99.45 per cent minimum aluminum.

⁽⁴⁾ EC-O wire will have an elongation of approximately 23 per cent in 10 inches.

⁽⁵⁾ EC-H19 wire will have an elongation of approximately 1½ per cent in 10 inches.

⁽⁶⁾ Sizes greater than 1½ inches will have strengths slightly lower than these values.

⁽⁷⁾ Extruded products more than $\frac{3}{4}$ inch thick will have strengths 15 to 20 per cent higher than these values.

⁽⁸⁾ Sheet less than 0.040 inch thick will have strengths slightly lower than these values.

⁽⁹⁾ Sheet more than 0.062 inch thick will have strengths slightly higher than these values.

⁽¹⁰⁾ Extruded products will have strengths approximately 10 per cent higher than these values. Die forgings have strengths approximately 4 per cent lower than these values.

⁽¹¹⁾ Die forgings will have strengths approximately 5 per cent higher than these values.

⁽¹²⁾ Die forgings will have a yield strength approximately 20 per cent lower than these values.

APPROXIMATE RADII^① FOR 90° COLD BEND

ALUMINUM SHEET AND PLATE

Alloy and Temper	Radii for Various Thicknesses Expressed in Terms of Thickness					
	$\frac{1}{4}$ inch	$\frac{1}{2}$ inch	$\frac{3}{8}$ inch	$\frac{1}{2}$ inch	$\frac{5}{16}$ inch	$\frac{3}{4}$ inch
1100-O	0	0	0	0	0	0
1100-H12	0	0	0	0	0-1	0-1
1100-H14	0	0	0	0	0-1	0-1
1100-H16	0	0	0-1	$\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3
1100-H18	0-1	$\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	$2\frac{1}{4}$
Alclad 2014-O	0	0	0	0	0-1	0-1
Alclad 2014-T3	1-2	$1\frac{1}{2}$ -3	2-4	3-5	4-6	4-6
Alclad 2014-T4	1-2	$1\frac{1}{2}$ -3	2-4	3-5	4-6	4-6
Alclad 2014-T6	2-4	3-5	3-5	4-6	5-7	6-10
2024-O ^②	0	0	0	0	0-1	0-1
2024-T3 ^{②③}	$1\frac{1}{2}$ -3	2-4	3-5	4-6	4-6	5-7
2024-T36 ^②	2-4	3-5	4-6	5-7	5-7	6-10
3003-O	0	0	0	0	0	0
3003-H12	0	0	0	0	0-1	0-1
3003-H14	0	0	0	0-1	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$
3003-H16	0-1	0-1	$\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	$2\frac{1}{4}$
3003-H18	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	3-5	4-6
3004-O	0	0	0	0	0-1	0-1
3004-H32	0	0	0	0-1	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$
3004-H34	0	0	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3
3004-H36	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	$2\frac{1}{4}$
3004-H38	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	3-5	4-6
5050-O	0	0	0	0	0	0-1
5050-H32	0	0	0	0	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$
5050-H34	0	0	0	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2
5050-H36	0-1	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4
5050-H38	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	3-5	4-6
5052-O	0	0	0	0	0-1	0-1
5052-H32	0	0	0	0-1	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$
5052-H34	0	0	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3
5052-H36	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	$2\frac{1}{4}$
5052-H38	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	3-5	4-6
5154-O	0	0	0	0-1	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$
5154-H32	0	0	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3
5154-H34	0-1	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4
5154-H36	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	2-4
5154-H38	1-2	$1\frac{1}{2}$ -3	2-4	3-5	4-6	4-6
6061-O	0	0	0	0	0-1	0-1
6061-T4	0-1	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4
6061-T6	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3	2-4	2-4
7075-O	0	0	0-1	$1\frac{1}{2}$ - $1\frac{1}{2}$	1-2	$1\frac{1}{2}$ -3
7075-T6 ^②	2-4	3-5	4-6	5-7	5-7	6-10

^①Minimum permissible radius over which sheet or plate may be bent varies with nature of forming operation, type of forming equipment, and design and condition of tools. Minimum working radius for a given material or hardest alloy and temper for a given radius can be ascertained only by actual trial under contemplated conditions of fabrication.

^②Alclad sheet can be bent over slightly smaller radii than the corresponding tempers of the uncoated alloy.

^③Immediately after quenching, this alloy can be formed over appreciably smaller radii.

ALUMINUM—NARROW STRIPS

APPROXIMATE WEIGHTS PER LINEAL FOOT IN POUNDS—Widths In Inches

B. & S. Gage	Thickness, Inches	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$
8	.1285	.0095	.0190	.0285	.0381	.0476	.0571	.0666	.0761	.0856	.0951	
9	.1144	.0085	.0170	.0255	.0340	.0425	.0508	.0593	.0678	.0763	.0848	
10	.1019	.0075	.0151	.0226	.0302	.0377	.0453	.0528	.0604	.0679	.0754	
11	.0907	.0067	.0134	.0201	.0269	.0336	.0403	.0470	.0537	.0604	.0671	
12	.0808	.0060	.0120	.0180	.0239	.0299	.0359	.0419	.0478	.0538	.0598	
13	.0720	.0053	.0107	.0160	.0213	.0266	.0320	.0373	.0427	.0480	.0533	
14	.0641	.0047	.0095	.0142	.0190	.0237	.0285	.0332	.0380	.0427	.0474	
15	.0571	.0042	.0084	.0126	.0169	.0211	.0253	.0295	.0338	.0380	.0422	
16	.0508	.0038	.0075	.0113	.0150	.0188	.0226	.0264	.0301	.0339	.0377	
17	.0453	.0034	.0067	.0101	.0134	.0168	.0201	.0235	.0268	.0302	.0336	
18	.0403	.0030	.0060	.0090	.0119	.0149	.0180	.0210	.0239	.0269	.0299	
19	.0359	.0026	.0053	.0079	.0106	.0132	.0160	.0186	.0212	.0238	.0264	
20	.0320	.0024	.0047	.0071	.0095	.0119	.0142	.0166	.0190	.0214	.0238	
21	.0285	.0021	.0042	.0063	.0084	.0105	.0126	.0147	.0169	.0190	.0211	
22	.0254	.0019	.0037	.0056	.0075	.0094	.0112	.0131	.0150	.0169	.0188	
23	.0226	.0017	.0034	.0051	.0067	.0084	.0101	.0118	.0134	.0151	.0168	
24	.0201	.0015	.0030	.0045	.0060	.0075	.0089	.0104	.0119	.0134	.0149	
25	.0179	.0013	.0026	.0039	.0053	.0066	.0080	.0093	.0106	.0119	.0132	
26	.0159	.0012	.0024	.0036	.0047	.0059	.0071	.0083	.0094	.0106	.0118	
27	.0142	.0011	.0021	.0032	.0042	.0053	.0063	.0074	.0084	.0095	.0106	
28	.0126	.0009	.0019	.0028	.0037	.0046	.0056	.0065	.0075	.0084	.0099	
29	.0113	.0008	.0017	.0025	.0034	.0042	.0050	.0058	.0067	.0075	.0084	
30	.0100	.0007	.0015	.0022	.0030	.0037	.0045	.0052	.0059	.0066	.0074	

(Continued on following page)

CIM
 IRE
 Mul
 Wi
 GAD
 DECIM
 11
 37
 30
 70
 50
 52
 46
 44
 37
 29
 24
 22
 19
 17
 E
 S
 SP

ALUMINUM—NARROW STRIPS—(continued) APPROXIMATE WEIGHTS PER LINEAL FOOT IN POUNDS—Widths In Inches

B. & S. Gage	Thickness, Inches	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{13}{16}$	$\frac{1}{2}$	$\frac{15}{16}$	1	2	3	4	5	6
8	.1285	.1046	.1142	.1237	.1322	.1427	.1522	.1617	.1710	.1807	.1900	.9132
9	.1144	.0933	.1017	.1102	.1187	.1272	.1355	.1439	.1519	.1604	.1674	.8129
10	.1019	.0829	.0905	.0980	.1055	.1130	.1207	.1282	.1362	.1428	.1505	.7242
11	.0907	.0738	.0806	.0873	.0940	.1007	.1074	.1149	.1223	.1297	.1371	.6445
12	.0808	.0658	.0718	.0778	.0838	.0898	.0957	.1014	.1071	.1129	.1184	.5742
13	.0720	.0586	.0640	.0693	.0746	.0799	.0853	.0906	.0959	.1007	.1056	.4264
14	.0641	.0521	.0570	.0617	.0664	.0711	.0759	.0806	.0853	.0901	.0943	.5116
15	.0571	.0464	.0507	.0549	.0591	.0633	.0676	.0719	.0759	.0807	.0847	.4555
16	.0508	.0415	.0451	.0489	.0527	.0565	.0602	.0639	.0676	.0713	.0748	.4058
17	.0453	.0370	.0402	.0436	.0470	.0504	.0536	.0573	.0609	.0647	.0680	.3609
18	.0403	.0329	.0358	.0388	.0418	.0448	.0477	.0505	.0532	.0560	.0588	.3219
19	.0359	.0290	.0319	.0345	.0371	.0397	.0425	.0453	.0480	.0507	.0534	.2864
20	.0320	.0262	.0284	.0308	.0332	.0356	.0379	.0401	.0427	.0453	.0479	.2551
21	.0285	.0232	.0253	.0274	.0295	.0316	.0338	.0360	.0387	.0413	.0439	.2278
22	.0254	.0207	.0225	.0244	.0263	.0282	.0300	.0318	.0335	.0352	.0378	.2025
23	.0226	.0185	.0201	.0218	.0235	.0252	.0268	.0285	.0302	.0319	.0336	.1798
24	.0201	.0164	.0179	.0194	.0209	.0224	.0238	.0253	.0270	.0287	.0303	.1606
25	.0179	.0145	.0159	.0172	.0185	.0198	.0212	.0224	.0236	.0252	.0268	.1428
26	.0159	.0130	.0141	.0153	.0165	.0177	.0188	.0199	.0210	.0224	.0238	.1272
27	.0142	.0117	.0126	.0137	.0148	.0159	.0168	.0177	.0188	.0197	.0210	.1130
28	.0126	.0103	.0112	.0121	.0131	.0140	.0149	.0158	.0168	.0177	.0184	.1099
29	.0113	.0092	.0100	.0108	.0117	.0125	.0134	.0143	.0152	.0161	.0170	.0895
30	.0100	.0081	.0096	.0104	.0111	.0118	.0125	.0134	.0143	.0152	.0161	.0803

CHEMICAL, PHYSICAL AND FABRICATION PROPERTIES

COPPER AND COPPER ALLOYS

ROD AND BARS

Alloy	Nominal Composition				Tensile Strength (Hard Drawn)	Elongation in 2"	Melting Point °F.	Machinability Brass Rod = 100%	Forming and Joining Properties†					
	Copper	Zinc	Lead	Tin					Hot Working	Cold Working	Soldering	Brazing	Welding	Oxyacetylene Welding
Electrolytic Copper* (Tough Pitch).....	99.9+	99.4	0.6 Tellurium	.....	45,000	20	15	1981	E	E	G	P	F	P
Tellurium Copper (Free Cutting)*.....	99.4	35.5	3.0	.....	45,000	80	10	1980	G	G	F	P	P	P
Free Cutting Brass*.....	61.5	39.25	.....	.....	58,000	100	18	1643	E	E	G	F	F	F
Naval Brass*.....	60.0	39.25	.....	.....	63,000	30	30	1625	F	P	G	G	G	G
(Non Leadied)														
Commercial Bronze F. C. High Strength*.....	90.25	6.9	1.75	1.0	58,000	80	12	1913	G	P	E	F	F	P
Free Cutting Phosphor Bronze*.....	88.0	4.0	4.0	4.0	60,000	90	20	1875	F	F	E	G	F	P
12% Leaded Nicel Silver*.....	91.0	7.0	1.0	2.0 Silicon	88,000	60	13	1930	G	G	F	F	F	P
Leaded Naval Brass.....	65.0	22.0	1.0	.....	68,000	50	15	1859	F	P	E	G	F	E
Leaded Naval Brass.....	60.0	37.5	1.75	.....	63,000	75	25	1634	P	G	E	F	P	P
Commercial Bronze.....	90.0	10.0	.....	.....	54,000	20	20	1913	E	G	E	G	P	P
(Non Leadied)														
Muntz Metal.....	60.0	40.0	.....	.....	55,000	40	30	1661	F	E	G	G	F	F
Phosphor Bronze A.....	95.0	.....	.....	.....	65,000	20	30	1922	E	P	E	G	G	G
Silicon Bronze.....	95.8	1.1	Manganese	5.0	90,000	30	18	1866	E	E	E	E	E	E
Red Brass.....	85.0	15.0	.....	3.1 Silicon	56,000	30	20	1877	E	G	E	G	G	P
Yellow Brass.....	.....	65.0	.....	.....	65,000	40	20	1688	E	P	G	G	F	F
(Non Leadied)														

† E = Excellent G = Good F = Fair P = Poor

*Alloys carried in warehouse—other items from mill.

COPPER AND COPPER ALLOYS
(Products Other Than Rod)

Alloy	Nominal Composition					Tensile Strength lbs. Sq. In.	Machinability Brass Rod = 100%	Elongation % in 2" Hard	Melting Point °F.	Cold Working	Hot Working	Soldering	Silver Brazing	Oxy-acetylene Welding	Carbon Arc Welding	Forming and Joining Properties*		
	Copper	Zinc	Lead	Tin	Nickel											P	F	P
Electrolytic Copper.....	99.9+					51,000	30,000	20%	6	45	1981°	E	E	G	E	F	G	P
Gilding Metal.....	95	5				56,000	35,000	20%	5	45	1950°	E	G	E	E	F	G	P
Commercial Bronze.....	90	10				61,000	39,000	20%	5	45	1910°	E	G	E	E	G	G	P
Red Brass.....	85	15				70,000	42,000	30%	5	47	1880°	E	G	E	E	G	G	P
Low Brass.....	80	20				74,000	45,000	30%	7	50	1830°	E	F	E	E	G	F	P
Cartridge Brass.....	70	30				76,000	48,000	30%	8	63	1750°	E	F	E	G	G	F	F
Yellow Brass (Sheet).....	65	35				74,000	48,000	30%	8	60	1710°	E	P	E	G	G	F	F
Yellow Brass (Tubes).....	66	33.5		.5		75,000	47,000	60%	7	60	1720°	E	P	E	G	F	F	F
Muntz Metal.....	60	40				70,000	57,000	40%	10	45	1660°	F	E	E	G	F	F	P
Leaded Brass.....	62.5	35.75	1.75			74,000	45,000	90%	5	50	1670°	F	P	E	G	F	F	P
Phosphor Bronze A.....	95		5			81,000	50,000	20%	10	58	1920°	E	P	E	G	F	F	P
Phosphor Bronze C.....	92		8			93,000	58,000	20%	10	65	1880°	G	P	E	G	G	G	E
Phosphor Bronze D.....	90		10			100,000	66,000	20%	13	68	1830°	G	P	E	G	G	G	E
Nickel Silver 18% A (Soft) ..	65	17				85,000	58,000	20%	3	40	2030°	E	P	E	E	G	F	E
Nick. Silver 18% B (Temp.)	55	27				100,000	60,000	30%	3	40	1930°	G	P	E	E	G	P	E

G * E = Excellent G = Good F = Fair P = Poor

COPPER AND COPPER ALLOY ROD TOLERANCES

Refractory Alloys: Forging Brass, Architectural Bronze, Admiralty, Manganese Bronze, Cupro Nickel, Nickel Silver, Phosphor Bronze, Silicon Bronze.

Non-Refractory: All other alloys.

The tolerances for rod to 0.150", inclusive, in this table, are greater than for similar sizes in wire below, but are required by dimensional changes resulting from the straightening operation, which changes are negligible in sizes over 0.150"

Diameter or Distance between Parallel Surfaces in Inches	Non-Refractory Alloys			Tolerances in Inches			Refractory Alloys		
	Round	Hexagonal	Round	Round	Hexagonal	Round	Round	Hexagonal	Round
Up to .150 incl.	.0013	.0025	.002	.002	.004	..	..	..	..
Over .150 to .500 incl.	.0015	.003	.002	.002	.005	.004	.005	.006	.005
Over .500 to 1.00 incl.	.002	.004	.003	.003	.006	.005	.006	.007	.006
Over 1.00 to 2.00 incl.	.0025	.005	.004	.004	.010	.008	.009	.011	.008
Over 2.00.....	.015%*	0.30%*	0.20%*	0.20%*	0.40%*	0.30%*	0.30%*	0.30%*	0.30%*

*Expressed to the nearest 0.001".

**BRASS AND COPPER WIRE TOLERANCES
BARE AND METALLIC COATED, DRAWN TO FINAL SIZE**

Diameter in Distance
between Parallel Surfaces
in Inches

	Tolerances in Inches		
	Non-Refractory Alloys See Page 310.	Round	Hexagonal
Up to .010 incl.	.0001	.....	.....
Over .010 to .020 incl.	.0002	.....	.....
Over .020 to .030 incl.	.0003	.....	.....
Over .030 to .040 incl.	.0004	.0008	.....
Over .040 to .050 incl.	.0005	.0010	.002
Over .050 to .060 incl.	.0006	.0012	.003
Over .060 to .080 incl.	.0008	.0014	.003
Over .080 to .150 incl.	.0010	.0016	.004
Over .150 to .500 incl.	.0015	.0022	.004
Over .500 to .750 incl.	.002	.003	.004
Over 4.00 to 12.00 incl.	.004	.003	.005

SQUARE AND RECTANGULAR ROD AND BAR—WIDTH TOLERANCES (In Inches)
For Rectangles (not including Squares) (For Squares Use Thickness Tolerances Next Page)

	Width Tolerances in Inches		
	Copper and Non-Refractory Alloys See Page 310.	Refractory Alloys	Width Tolerances in Inches
Up to .050 incl.0013
Over .050 to .090 incl.0015
Over .090 to .130 incl.002
Over .130 to .187 incl.003
Over .187 to .500 incl.004
Over .500 to 1.25 incl.005
Over 1.25 to 2.00 incl.007
Over 2.00 to 4.00 incl.008
Over 4.00 to 12.00 incl.012
			.015
			0.50%*

*Expressed to the nearest .001".

SQUARE AND RECTANGULAR ROD AND BAR—THICKNESS TOLERANCES

COPPER BUS BAR

	Thickness in Inches	Width in Inches			
		Up to ½ incl.	Over ½ to 1 ¼ incl.	Over 1 ¼ to 2.00 incl.	Over 2.00 to 4.00 incl.
Over .050 to .090	.090 incl.	.0015	.0015	.0025	.0035
Over .090 to .130	.130 incl.	.002	.002	.003	.004
Over .130 to .187	.187 incl.	.0025	.0025	.0035	.0045
Over .187 to .500	.500 incl.	.003	.003	.004	.0055
Over .500 to 1.00	1.00 incl.	.004	.004	.0045	.005
Over 1.00 to 2.00	2.00 incl.	.0045	.0045	.005	.006
Over 2.00 to 4.00	4.00 incl.	.....	.....	0.30%*	.....

NON-REFRACTORY ALLOYS (See Page 305)

	Thickness in Inches	Width in Inches			
		Up to ½ incl.	Over ½ to 1 ¼ incl.	Over 1 ¼ to 2.00 incl.	Over 2.00 to 4.00 incl.
Over .050 to .090	.090 incl.	.0015	.002	.003	.0035
Over .090 to .130	.130 incl.	.002	.0025	.0035	.004
Over .130 to .187	.187 incl.	.003	.0035	.004	.0045
Over .187 to .500	.500 incl.	.0035	.004	.0045	.005
Over .500 to 1.00	1.00 incl.	.....	.0045	.005	.006
Over 1.00 to 2.00	2.00 incl.	.....	.005	.006	.007
Over 2.00 to 4.00	4.00 incl.	.....	.....	0.30%*	.....

(Continued on following page)

WIRE	DECIMAL
Music Wire	
.004	
.005	
.006	
.007	
.008	
.009	
.010	
.011	
.012	
.013	
.014	
.016	
.018	
.020	
.022	
.024	
.026	
.029	
.031	
.033	
.035	
.037	
.039	
.041	
.043	
.045	
.047	
.049	
.051	
.055	
.059	
.063	
.067	
.071	
.075	
.080	
.085	
.090	
.095	
.100	
MUSIC WIRE	
SPRING WIRE	

COPPER AND BRASS SQUARE AND RECTANGULAR ROD AND BAR—TOLERANCES

Thickness Tolerances

(Continued from preceding page)

REFRACTORY ALLOYS (See Page 305)

Thickness in Inches	Width in Inches					
	Up to ½ incl.	Over ½ to 1¼ incl.	Over 1⅔ to 2.00 incl.	Over 2.00 to 4.00 incl.	Over 4.00 to 8.00 incl.	Over 8.00 to 12.00 incl.
Over .050 to .090 incl.	.002	.003	.004	.005	.....	.....
Over .090 to .130 incl.	.003	.004	.0045	.006	.....	.....
Over .130 to .187 incl.	.004	.0045	.005	.007	.009*	.012*
Over .187 to .500 incl.	.005	Bar	.005	.006	.007	.012
Over .500 to 1.00 incl.	.....	.....	.006	.007	.009	.013
Over 1.00 to 2.00 incl.	.....	.....	.006	.008	.010	.....
Over 2.00 to 4.00 incl.	.....	.....	.007	.009	.011	.....
			.....	0.50%*	.....	.....

*Expressed to the nearest .001".

COPPER PRODUCTS

Commercial Thickness Tolerances
STOCK SIZE SHEET COPPER

Weight per Sq. Ft. Ounces	Nominal Thickness	Minimum Thickness at any Point	Lot Weight Tolerances Based on Weight per Case or Crate (Normally Approx. 500 lbs.)		Nominal Thickness	Minimum Thickness at any Point	Lot Weight Tolerances Based on Weight per Case or Crate (Normally Approx. 500 lbs.)	Maximum Thickness
			Minimum Maximum	Maximum Minimum				
10	.0135	.012	95%	105%	.0270	.0245	95%	105%
12	.0162	.014	95%	105%	.0323	.030	95%	105%
14	.0189	.016	95%	105%	.0377	.0355	95%	105%
16	.0216	.019	95%	105%	.0431	.0405	95%	105%
18	.0243	.0225	95%	105%				

Tolerances are plus and minus; if tolerances all plus or all minus, are desired double the values given.

COPPER AND COPPER ALLOY PRODUCTS—TOLERANCES

Commercial Thickness Tolerances

NON-BEER ALCOHOLS

NON-REFRACTIVE ALLOYS

Thickness in Inches	Width in Inches						Over 48 to 60 incl.
	Up to 8 incl.	Over 8 to 12 incl.	Over 12 to 14 incl.	Over 14 to 20 incl.	Over 20 to 28 incl.	Over 28 to 36 incl.	
SHEET							
Up to .004 incl.	.0003	.0006	.0006	.0013	.....	.....	.....
Over .004 to .006 incl.	.0004	.0008	.0008	.0015	.....	.....	.....
Over .006 to .009 incl.	.0006	.0010	.0010	.0018	.0025	.003	.0035
Over .009 to .013 incl.	.0008	.0013	.0013	.0018	.002	.003	.0035
Over .013 to .017 incl.	.0010	.0015	.0015	.0025	.0025	.003	.0045
Over .017 to .021 incl.	.0013	.0018	.0018	.002	.003	.0035	.005
Over .021 to .026 incl.	.0015	.002	.002	.0025	.0025	.004	.006
Over .026 to .037 incl.	.002	.002	.002	.0025	.0025	.004	.006
Over .037 to .050 incl.	.002	.0025	.0025	.003	.003	.005	.007
Over .050 to .073 incl.	.0025	.003	.003	.0035	.004	.006	.008
Over .073 to .130 incl.	.003	.0035	.0035	.004	.0045	.007	.010
Over .130 to .188 incl.	.0035	.004	.004	.0045	.008	.012	.012
BAR							
Over .188 to .205 incl.	.0035	.004	.0045	.007	.008	.010	.014
Over .205 to .300 incl.	.004	.0045	.0045	.009	.010	.012	.018
Over .300 to .500 incl.	.0045	.005	.005	.012	.013	.015	.023
Over .500 to .750 incl.	.0055	.007	.007	.015	.017	.019	.029
Over .750 to 1.00 incl.	.007	.009	.009	.018	.021	.022	.036
Over 1.00 to 1.50 incl.	.....	.....	.....	.025	.025	.029	.036
Over 1.50 to 2.00 incl.	.....	.....	.....	.....	.....	.030	.044
PLATE							
Over .188 to .205 incl.	.0035	.004	.0045	.007	.008	.010	.012
Over .205 to .300 incl.	.004	.0045	.0045	.009	.010	.012	.018
Over .300 to .500 incl.	.0045	.005	.005	.012	.013	.015	.023
Over .500 to .750 incl.	.0055	.007	.007	.015	.017	.019	.029
Over .750 to 1.00 incl.	.007	.009	.009	.018	.021	.022	.036
Over 1.00 to 1.50 incl.	.....	.....	.....	.025	.025	.029	.036
Over 1.50 to 2.00 incl.	.....	.....	.....	.....	.....	.030	.044

Tolerances are plus and minus: if tolerances all plus or all minus are desired, double the values given.

Refractory Alloys: Phosphor Bronze, Nickel Silver, Muntz Metal, Naval Brass, Manganese and Silicon Bronze and Cupro Nickel
Non Refractory: All other alloys.

COPPER ALLOY PRODUCTS
Commercial Thickness Tolerances
*** REFRACTORY ALLOYS**

Tolerances are plus and minus if tolerances all plus or all minus, are desired double the values given.

*Refractory Alloys: Phosphor Bronze, Nickel Silver, Muntz Metal, Naval Brass, Manganese and Silicon Bronze and Cupro Nickel
Non Refractory: All other alloys

ROUND SEAMLESS TUBES

WALL THICKNESS TOLERANCES

(Except Condenser Tubes, Pipe and Copper Water Tube, and Tubes Furnished as Extruded)

Maximum deviation at any point—The following tolerances are plus and minus; if tolerances all plus or all minus are desired, double the values given.

BRASS AND COPPER TUBE

Wall Thickness in Inches	Outside Diameter in Inches				
	Up to $\frac{1}{8}$ incl. to $\frac{1}{8}$ incl.	Over $\frac{1}{8}$ to $\frac{5}{8}$ incl.	Over $\frac{5}{8}$ to 1 incl.	Over 1 to 2 incl.	Over 2 to 4 incl.
Up to .018...	.002	.001	.0015	.002	...
Incl. .018 to .025...	.003	.002	.0025	.0025	...
Incl. .025 to .035...	.003	.0025	.003	.004	...
Incl. .035 to .058...	.003	.003	.0035	.0035	.005
Incl. .058 to .083...	.0035	.004	.004	.004	.007
Incl. .083 to .120...	.004	.005	.005	.007	.010
Incl. .120 to .165...	.005	.006	.006	.008	.012
Incl. .165 to .220...	.007	.0075	.008	.010	.014
Incl. .220 to .284...	....	.009	.010	.012	.016
Incl. .284 to .380...	....	....	.011	.012	.018
Incl. .380 and over...	....	....	....	5%	6%

Tolerances on a given tube may be specified with respect to any two, but not all three of the following: a. Outside dimension; b. Inside dimension; c. Wall thickness. Warehouse material is ordered to OD and Wall tolerances.

Tubing MEAN DIAMETER* TOLERANCES

All tolerances plus and minus

Specified Diameter in Inches		Tolerance Applies to	Tolerance in Inches	
			Non-Refractory Alloys	Refractory Alloys
Up to $\frac{1}{8}$ incl.		Inside Dia.	.002	.003
Up to $\frac{1}{8}$ incl.		Outside Dia.	.002	.0025
Over $\frac{1}{8}$ to $\frac{5}{8}$ incl.		Inside or Outside	.002	.0025
Over $\frac{5}{8}$ to 1 incl.		Inside or Outside	.0025	.003
Over 1 to 2 incl.		Inside or Outside	.003	.004
Over 2 to 3 incl.		Inside or Outside	.004	.005
Over 3 to 4 incl.		Inside or Outside	.005	.006
Over 4 to 5 incl.		Inside or Outside	.006	.008
Over 5 to 6 incl.		Inside or Outside	.007	.009
Over 6 to 8 incl.		Inside or Outside	.008	.010
Over 8 to 10 incl.		Inside or Outside	.010	.013

*The mean diameter of a tube is the average of the maximum and minimum outside diameters, or of the maximum and minimum inside diameters, as determined at any one cross-section of the tube.

COPPER AND COPPER ALLOY PRODUCTS

COMMERCIAL WIDTH TOLERANCES—SLIT METAL (Flat or Coils)
All Tolerances this page plus and minus—if wanted all plus or minus, double the values given

Width in Inches	For Thicknesses Up to .032" Incl.	For Thicknesses Over .032" to .188" Incl.
Up to 2" Incl.	.005"	.010"
Over 2" to 8" Incl.	.008"	.013"
Over 8" to 14" Incl.	.010"	.015"
Over 14" to 20" Incl.	.013"	.018"

COMMERCIAL WIDTH TOLERANCES—SHEARED METAL

Width or Length	For Thicknesses Up to $\frac{1}{16}$ " Incl.	For Thicknesses Over $\frac{1}{16}$ " Incl. $\frac{1}{8}$ "	For Thickness Over $\frac{1}{8}$ "
Up to 20" Incl.	.032"	.046"	.0625"
Over 20" to 36" Incl.	.046"	.046"	.0625"
Over 36" to 120" Incl.	.0625"	.0625"	.0625"

COMMERCIAL WIDTH TOLERANCES

SAWED Metal-Lengths Up to 10' Incl.

Width in Inches	For Thicknesses Up to $1\frac{1}{2}$ " Incl.	For Thicknesses Over $1\frac{1}{2}$ "
Up to 12" Incl.	.032"	.0625"
Over 12"	.0625"	.0625"

STRAIGHTNESS TOLERANCES—SLIT METAL

(Maximum Edgewise Curvature—in any 6 foot portion of total length)

Width in Inches

Up to $\frac{1}{2}"$ Incl.	$3"$	Over 2" to 5" Incl.	$\frac{5}{8}"$
Over $\frac{1}{2}"$ to 1" Incl.	$1\frac{1}{4}"$	Over 5"	$\frac{1}{2}"$
Over $1\frac{1}{2}"$ to 2" Incl.	$\frac{3}{4}"$		

GOVERNMENT SPECIFICATIONS—STOCK MATERIAL—COPPER ALLOYS

Description	Copper	Nominal Chemical Composition	Lead	Nickel	A.S.T.M.	S.A.E.	A.M.S.	Applicable Specifications	Military	Miscellaneous
Rods and Bars										
Copper (Electrolytic).....	99.9	.....	.....	.....	B133 & B187	.....	.....	QQC502 and 504	.....	.....
Copper (Free Cutting).....	99.4	(.6 Tellurium)	.....	.....	.....	.....	.....	.....	.....	.....
Free Cutting Brass—										
(Inc. Rect. $\frac{1}{8}$ " & Thicker).....	61.5	35.5	3.0	.....	B16	72	4610E	{QQB626A Comp. 22 QQB611A Comp. B	C895A	.....
Rect. Brass (Under $\frac{1}{8}$ " Thick)	65.0	35.0	.....	.....	B36—Alloy 8	70 Gr. C	.....	QQB611A Comp. C.	.....	.....
Naval Brass.....	60.0	39.25	.75	.....	B21A & B124#3	73	4612C	{QQB636B Grade A QQB638 Comp. 1	N994B Comp. A	.....
Comm. Bronze (F.C. Hi-Strength)	90.25	6.9	4.0	1.75	1.0	.....	.....	.....	.....	.....
Phos. Bronze (Free Cutting)	88.0	4.0	4.0	4.0	B140—Alloy B	.....	.....	.....	.....	.....
12% Leaded Nickel Silver	65.0	22.0	.....	1.0	12.0	791	.....	.....	.....	.....
Everdur 1014 (Aluminum Bronze)	91.0	.....	.....	7.0	2.0	.....	.....	.....	.....	.....
Bronze Bushings.....	83%	3%	7%	7%	B150 Alloy 1	701B	4631B	{QQB666 Gr. B QQB663 Comp. 1	{B6946 (B15939 (2) Comp. 1	.....
Bronze Bushings.....	83%	3%	7%	7%	B144 Alloy 3B	660	.....	.....	.....	.....
Sheets and Strips										
Copper—										
(Electrolytic Tough Pitch).....	99.9	.....	.....	.....	B152 Type ETP	71	4500C	QQC576	.....	.....
Red Brass.....	85.0	15.0	.....	.....	B36 Alloy 3	79 Gr. A	.....	QQB613 Comp. 4	.....	Army 56-160
Commercial Bronze.....	90.0	10.0	.....	.....	B36 Alloy 2	.....	.....	.....	.....	.....
Brass (All Tempers).....	70.0	30.0	.....	.....	B36 Alloy 6	70 A & B	4505D	{QQB611A Comp. E (QQB613 Comp. 2	C895 A	.....

(Continued on following page)

DECIM
WIRE
Mu
Wi
T
GAC
DECIM
3
3
6
5
12
16
18
14
13
16
10
37
36
37
23
71
38
14
78
50
15
32
27
22
178
141
111
087
080
070
060
052
046
044
037
029
024
022
019
017
RE-
LS
SP

GOVERNMENT SPECIFICATIONS—STOCK MATERIAL—COPPER ALLOYS

(Continued from preceding page)

Description	Nominal Composition	Chemical Composition			A.S.T.M.	S.A.E.	A.M.S.	Applicable Specifications		Military	Miscellaneous
		Copper	Zinc	Tin				Federal	Grade		
Sheets and Strips											
Muntz Metal.....	60.0	40.0	.....	.....	.....	B121 Alloy 4	.....	.....	.....	.....	.....
Engravers Brass (Leaded).....	62.5	35.75	.....	1.75	.....	B103 Alloy A	77A	4510C	{ QQB746A Comp. A QQP330 Comp. A	B892 Grade A	.....
Grade A Phosphor Bronze.....	95.0	.....	5.0	.....	.....	.....	.....	.....	.....	.....	.....
Nickel Silver (A) (Soft).....	65.0	17.0	.....	.....	18.0	B122 Alloy 2	.....	.....	.....	.....	.....
Nickel Silver (B) (HH & Spring).....	55.0	27.0	.....	.....	18.0	B122 Alloy 4	.....	.....	.....	.....	.....
Wire											
Brass (All Tempers).....	70.0	30.0	.....	.....	.....	B134 Alloy 6	80A	.....	QQW321B Comp. B	.....	.....
Copper (Soft).....	99.9+	.....	.....	.....	.....	B3	83	4701A	QQW31A	.....	Navy 22W 9B
Phosphor Bronze (A).....	95.0	.....	5.0	.....	.....	B159 Grade A	81	4720B	QQW40I	.....	Army 57-220A
Nickel Silver (H.H. & Spring).....	55.0	27.0	1	.....	18.0	B206B	.....	.....	.....	.....	.....
Tube											
Brass.....	67.0	32.5	.....	.5	.....	B135 Alloy 3	74B	4555A	WWT791 Grades 2 & 3	57-190-1	{ Army 57-190-1 Navy 44T 15B-Gr. 2
Copper (Including UDD).....	99.9	.....	.....	.....	.....	B68—Type DHP	75	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	B75—Type DHP	.....	.....	.....	.....	.....
Copper Water Tube.....	99.9	.....	.....	.....	.....	B88	.....	.....	WWT799A	.....	.....
Copper IPS Pipe.....	99.9	.....	.....	.....	.....	B42	.....	.....	WWP377	.....	.....
Red Brass Pipe.....	85.0	15.0	.....	.....	.....	B43	.....	.....	WWP351A	.....	.....
Angles ($\frac{1}{16}$ " thick).....	65.0	35.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
Angles (over $\frac{1}{16}$ ").....	56.0	41.25	.....	2.75	.....	.....	.....	.....	.....	.....	.....

GAGE DECIMALS

FOR ACCURACY—Do Not Specify by Gage—ALWAYS SPECIFY BY DECIMAL

NON-FERROUS Brown & Sharp				STEEL SHEETS *Manufacturers Std.				STRIP & TUBING Birmingham or Stubs				STEEL WIRE			
WEIGHT Per Sq. Ft. 25, 45, 615, Sheet	GAGE DECIMAL	WEIGHT Lbs. Per Sq. Ft. Sheet	GAGE DECIMAL	WEIGHT Lbs. Per Sq. Ft. Sheet	GAGE DECIMAL	WEIGHT Lbs. Per Sq. Ft. Steel STRIP	GAGE DECIMAL	WEIGHT Lbs. Per 100 Ft. Steel WIRE	GAGE DECIMAL	*Steel Wire Gage	Music Wire				
ALUMINUM		BRASS		STEEL											
.5800						000000		.4615	56.81	.004					
.5165						000000	.500	20.40	.4305	49.43					
.4600						000000	.454	18.52	.3938	41.36	.006				
.4096						000000	.425	17.34	.3625	35.05	.007				
.3648						000000	.380	15.30	.3310	29.22	.008				
.3249						0	.340	13.87	.3065	25.06	.009				
.2893						1	.300	12.240	.2830	21.36	.010				
.2576						2	.284	11.587	.2625	18.38	.011				
.2294	.2391	10.00				3	.259	10.567	.2437	15.84	.012				
.2043	.2242	9.375				4	.238	9.710	.2253	13.54	.013				
.1819	.2092	8.75				5	.220	8.976	.2070	11.43	.014				
2.29	.1620	7.138	.1943	8.125		6	.203	8.282	.1920	9.83	.016				
2.04	.1443	6.358	.1793	7.50		7	.180	7.344	.1770	8.36	.018				
1.813	.1285	5.662	.1644	6.875		8	.165	6.732	.1620	7.00	.020				
1.612	.1144	5.041	.1495	6.250		9	.148	6.038	.1483	5.87	.022				
1.437	.1019	4.490	.1345	5.625		10	.134	5.467	.1350	4.86	.024				
1.279	.0907	3.997	.1196	5.00		11	.120	4.896	.1205	3.87	.026				
1.140	.0808	3.560	.1046	4.375		12	.109	4.447	.1055	2.97	.029				
1.016	.0720	3.173	.0897	3.75		13	.095	3.876	.0915	2.23	.031				
.905	.0641	2.825	.0747	3.125		14	.083	3.386	.0800	1.71	.033				
806	.0571	2.516	.0673	2.813		15	.072	2.938	.0720	1.38	.035				
.717	.0508	2.238	.0598	2.50		16	.065	2.652	.0625	1.04	.037				
.639	.0453	1.996	.0538	2.25		17	.058	2.366	.0540	.78	.039				
.569	.0403	1.776	.0478	2.00		18	.049	1.999	.0475	.60	.041				
.507	.0359	1.582	.0418	1.75		19	.042	1.714	.0410	.45	.043				
.452	.0320	1.410	.0359	1.50		20	.035	1.428	.0348	.32	.045				
.402	.0285	1.256	.0329	1.375		21	.032	1.306	.0317	.27	.047				
.357	.0253	1.119	.0299	1.25		22	.028	1.142	.0286	.22	.049				
.319	.0226	.996	.0269	1.125		23	.025	1.020	.0258	.178	.051				
.284	.0201	.886	.0239	1.00		24	.022	.898	.0230	.141	.055				
.253	.0179	.789	.0209	.875		25	.020	.816	.0204	.111	.059				
.224	.0159	.701	.0179	.750		26	.018	.734	.0181	.087	.063				
.200	.0142	.626	.0164	.688		27	.016	.651	.0173	.080	.067				
.178	.0126	.555	.0149	.625		28	.014	.571	.0162	.070	.071				
.159	.0113	.498	.0135	.563		29	.013	.530	.0150	.060	.075				
.141	.0100	.441	.0120	.500		30	.012	.490	.0140	.052	.080				
.126	.0089	.392	.0105	.438		31	.010	.408	.0132	.046	.085				
.113	.0080	.353	.0097	.406		32	.009	.367	.0128	.044	.090				
.100	.0071	.313	.0090	.375		33	.008	.326	.0118	.037	.095				
.089	.0063	.278	.0082	.344		34	.007	.286	.0104	.029	.100				
.0056	.248	.0075	.313			35	.005	.204	.0095	.024	.106				
.0050	.220	.0067	.281			36	.004	.163	.0090	.022	.112				
.0045	.198	.0064	.266			37			.0085	.019	.118				
.0040	.176	.0060	.250			38			.008	.017	.124				

ALUMINUM—Sheet
ALL BRASS—Sheet,
Strip, Wire, Tube
BRONZE—Sheet,
Strip, Wire
COPPER—Strip,
Tube, Wire
NICKEL SILVER—
Sheet, Wire

STEEL SHEETS
—Flat or Coil
Hot Rolled or
Cold Rolled
*Replaces U.S.
Standard (Re-
vised) Gage

All Gage
Decimals
are Accu-
rate to the
Nearest
Ten-Thou-
sandths of
an Inch

Tubing:
Bands
Alum-
inum
Spring
Brass
Copper
Steel
Strip
Stain-
less
Steel

Flat Wire
Steel
Sheet
Steel
Steel
Steel
Stainless
Steel Strip

STEEL WIRE—
All Finishes
STEEL NAILS
*Replaces
Washburn
& Moen
Gage

Central Steel & Wire Company

1958-59

Central Steel

REPUBLIC 7-3000

Central Steel & Wire Company

P. O. Box 5310-A

CHICAGO 80, ILLINOIS

CHICAGO • DETROIT • CINCINNATI • MILWAUKEE